



API Reference

# Amazon CloudFront



# Amazon CloudFront: API Reference

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# Welcome

## Amazon CloudFront

This is the *Amazon CloudFront API Reference*. This guide is for developers who need detailed information about CloudFront API actions, data types, and errors. For detailed information about CloudFront features, see the [Amazon CloudFront Developer Guide](#).

## Amazon CloudFront KeyValueCollection

You can use Amazon CloudFront KeyValueCollection to view and update data in a key value store resource. For more information, see [Using CloudFront KeyValueCollection](#) in the *Amazon CloudFront Developer Guide*.



# Actions

The following actions are supported by Amazon CloudFront:

- [AssociateAlias](#)
- [CopyDistribution](#)
- [CreateAnycastIpList](#)
- [CreateCachePolicy](#)
- [CreateCloudFrontOriginAccessIdentity](#)
- [CreateContinuousDeploymentPolicy](#)
- [CreateDistribution](#)
- [CreateDistributionWithTags](#)
- [CreateFieldLevelEncryptionConfig](#)
- [CreateFieldLevelEncryptionProfile](#)
- [CreateFunction](#)
- [CreateInvalidation](#)
- [CreateKeyGroup](#)
- [CreateKeyValueStore](#)
- [CreateMonitoringSubscription](#)
- [CreateOriginAccessControl](#)
- [CreateOriginRequestPolicy](#)
- [CreatePublicKey](#)
- [CreateRealtimeLogConfig](#)
- [CreateResponseHeadersPolicy](#)
- [CreateStreamingDistribution](#)
- [CreateStreamingDistributionWithTags](#)
- [CreateVpcOrigin](#)
- [DeleteAnycastIpList](#)
- [DeleteCachePolicy](#)
- [DeleteCloudFrontOriginAccessIdentity](#)
- [DeleteContinuousDeploymentPolicy](#)

- [DeleteDistribution](#)
- [DeleteFieldLevelEncryptionConfig](#)
- [DeleteFieldLevelEncryptionProfile](#)
- [DeleteFunction](#)
- [DeleteKeyGroup](#)
- [DeleteKeyValueStore](#)
- [DeleteMonitoringSubscription](#)
- [DeleteOriginAccessControl](#)
- [DeleteOriginRequestPolicy](#)
- [DeletePublicKey](#)
- [DeleteRealtimeLogConfig](#)
- [DeleteResponseHeadersPolicy](#)
- [DeleteStreamingDistribution](#)
- [DeleteVpcOrigin](#)
- [DescribeFunction](#)
- [DescribeKeyValueStore](#)
- [GetAnycastIpList](#)
- [GetCachePolicy](#)
- [GetCachePolicyConfig](#)
- [GetCloudFrontOriginAccessIdentity](#)
- [GetCloudFrontOriginAccessIdentityConfig](#)
- [GetContinuousDeploymentPolicy](#)
- [GetContinuousDeploymentPolicyConfig](#)
- [GetDistribution](#)
- [GetDistributionConfig](#)
- [GetFieldLevelEncryption](#)
- [GetFieldLevelEncryptionConfig](#)
- [GetFieldLevelEncryptionProfile](#)
- [GetFieldLevelEncryptionProfileConfig](#)
- [GetFunction](#)

- [GetInvalidation](#)
- [GetKeyGroup](#)
- [GetKeyGroupConfig](#)
- [GetMonitoringSubscription](#)
- [GetOriginAccessControl](#)
- [GetOriginAccessControlConfig](#)
- [GetOriginRequestPolicy](#)
- [GetOriginRequestPolicyConfig](#)
- [GetPublicKey](#)
- [GetPublicKeyConfig](#)
- [GetRealtimeLogConfig](#)
- [GetResponseHeadersPolicy](#)
- [GetResponseHeadersPolicyConfig](#)
- [GetStreamingDistribution](#)
- [GetStreamingDistributionConfig](#)
- [GetVpcOrigin](#)
- [ListAnycastIpLists](#)
- [ListCachePolicies](#)
- [ListCloudFrontOriginAccessIdentities](#)
- [ListConflictingAliases](#)
- [ListContinuousDeploymentPolicies](#)
- [ListDistributions](#)
- [ListDistributionsByAnycastIpListId](#)
- [ListDistributionsByCachePolicyId](#)
- [ListDistributionsByKeyGroup](#)
- [ListDistributionsByOriginRequestPolicyId](#)
- [ListDistributionsByRealtimeLogConfig](#)
- [ListDistributionsByResponseHeadersPolicyId](#)
- [ListDistributionsByVpcOriginId](#)
- [ListDistributionsByWebACLId](#)

- [ListFieldLevelEncryptionConfigs](#)
- [ListFieldLevelEncryptionProfiles](#)
- [ListFunctions](#)
- [ListInvalidations](#)
- [ListKeyGroups](#)
- [ListKeyValueStores](#)
- [ListOriginAccessControls](#)
- [ListOriginRequestPolicies](#)
- [ListPublicKeys](#)
- [ListRealtimeLogConfigs](#)
- [ListResponseHeadersPolicies](#)
- [ListStreamingDistributions](#)
- [ListTagsForResource](#)
- [ListVpcOrigins](#)
- [PublishFunction](#)
- [TagResource](#)
- [TestFunction](#)
- [UntagResource](#)
- [UpdateCachePolicy](#)
- [UpdateCloudFrontOriginAccessIdentity](#)
- [UpdateContinuousDeploymentPolicy](#)
- [UpdateDistribution](#)
- [UpdateDistributionWithStagingConfig](#)
- [UpdateFieldLevelEncryptionConfig](#)
- [UpdateFieldLevelEncryptionProfile](#)
- [UpdateFunction](#)
- [UpdateKeyGroup](#)
- [UpdateKeyValueStore](#)
- [UpdateOriginAccessControl](#)
- [UpdateOriginRequestPolicy](#)

- [UpdatePublicKey](#)
- [UpdateRealtimeLogConfig](#)
- [UpdateResponseHeadersPolicy](#)
- [UpdateStreamingDistribution](#)
- [UpdateVpcOrigin](#)

The following actions are supported by Amazon CloudFront KeyValueStore:

- [DeleteKey](#)
- [DescribeKeyValueStore](#)
- [GetKey](#)
- [ListKeys](#)
- [PutKey](#)
- [UpdateKeys](#)

## Amazon CloudFront

The following actions are supported by Amazon CloudFront:

- [AssociateAlias](#)
- [CopyDistribution](#)
- [CreateAnycastIpList](#)
- [CreateCachePolicy](#)
- [CreateCloudFrontOriginAccessIdentity](#)
- [CreateContinuousDeploymentPolicy](#)
- [CreateDistribution](#)
- [CreateDistributionWithTags](#)
- [CreateFieldLevelEncryptionConfig](#)
- [CreateFieldLevelEncryptionProfile](#)
- [CreateFunction](#)
- [CreateInvalidation](#)
- [CreateKeyGroup](#)

- [CreateKeyValueStore](#)
- [CreateMonitoringSubscription](#)
- [CreateOriginAccessControl](#)
- [CreateOriginRequestPolicy](#)
- [CreatePublicKey](#)
- [CreateRealtimeLogConfig](#)
- [CreateResponseHeadersPolicy](#)
- [CreateStreamingDistribution](#)
- [CreateStreamingDistributionWithTags](#)
- [CreateVpcOrigin](#)
- [DeleteAnycastIpList](#)
- [DeleteCachePolicy](#)
- [DeleteCloudFrontOriginAccessIdentity](#)
- [DeleteContinuousDeploymentPolicy](#)
- [DeleteDistribution](#)
- [DeleteFieldLevelEncryptionConfig](#)
- [DeleteFieldLevelEncryptionProfile](#)
- [DeleteFunction](#)
- [DeleteKeyGroup](#)
- [DeleteKeyValueStore](#)
- [DeleteMonitoringSubscription](#)
- [DeleteOriginAccessControl](#)
- [DeleteOriginRequestPolicy](#)
- [DeletePublicKey](#)
- [DeleteRealtimeLogConfig](#)
- [DeleteResponseHeadersPolicy](#)
- [DeleteStreamingDistribution](#)
- [DeleteVpcOrigin](#)
- [DescribeFunction](#)
- [DescribeKeyValueStore](#)

- [GetAnycastIpList](#)
- [GetCachePolicy](#)
- [GetCachePolicyConfig](#)
- [GetCloudFrontOriginAccessIdentity](#)
- [GetCloudFrontOriginAccessIdentityConfig](#)
- [GetContinuousDeploymentPolicy](#)
- [GetContinuousDeploymentPolicyConfig](#)
- [GetDistribution](#)
- [GetDistributionConfig](#)
- [GetFieldLevelEncryption](#)
- [GetFieldLevelEncryptionConfig](#)
- [GetFieldLevelEncryptionProfile](#)
- [GetFieldLevelEncryptionProfileConfig](#)
- [GetFunction](#)
- [GetInvalidation](#)
- [GetKeyGroup](#)
- [GetKeyGroupConfig](#)
- [GetMonitoringSubscription](#)
- [GetOriginAccessControl](#)
- [GetOriginAccessControlConfig](#)
- [GetOriginRequestPolicy](#)
- [GetOriginRequestPolicyConfig](#)
- [GetPublicKey](#)
- [GetPublicKeyConfig](#)
- [GetRealtimeLogConfig](#)
- [GetResponseHeadersPolicy](#)
- [GetResponseHeadersPolicyConfig](#)
- [GetStreamingDistribution](#)
- [GetStreamingDistributionConfig](#)
- [GetVpcOrigin](#)

- [ListAnycastIpLists](#)
- [ListCachePolicies](#)
- [ListCloudFrontOriginAccessIdentities](#)
- [ListConflictingAliases](#)
- [ListContinuousDeploymentPolicies](#)
- [ListDistributions](#)
- [ListDistributionsByAnycastIpListId](#)
- [ListDistributionsByCachePolicyId](#)
- [ListDistributionsByKeyGroup](#)
- [ListDistributionsByOriginRequestPolicyId](#)
- [ListDistributionsByRealtimeLogConfig](#)
- [ListDistributionsByResponseHeadersPolicyId](#)
- [ListDistributionsByVpcOriginId](#)
- [ListDistributionsByWebACLId](#)
- [ListFieldLevelEncryptionConfigs](#)
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- [ListOriginAccessControls](#)
- [ListOriginRequestPolicies](#)
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- [ListRealtimeLogConfigs](#)
- [ListResponseHeadersPolicies](#)
- [ListStreamingDistributions](#)
- [ListTagsForResource](#)
- [ListVpcOrigins](#)
- [PublishFunction](#)
- [TagResource](#)



- [TestFunction](#)
- [UntagResource](#)
- [UpdateCachePolicy](#)
- [UpdateCloudFrontOriginAccessIdentity](#)
- [UpdateContinuousDeploymentPolicy](#)
- [UpdateDistribution](#)
- [UpdateDistributionWithStagingConfig](#)
- [UpdateFieldLevelEncryptionConfig](#)
- [UpdateFieldLevelEncryptionProfile](#)
- [UpdateFunction](#)
- [UpdateKeyGroup](#)
- [UpdateKeyValueStore](#)
- [UpdateOriginAccessControl](#)
- [UpdateOriginRequestPolicy](#)
- [UpdatePublicKey](#)
- [UpdateRealtimeLogConfig](#)
- [UpdateResponseHeadersPolicy](#)
- [UpdateStreamingDistribution](#)
- [UpdateVpcOrigin](#)

# AssociateAlias

Service: Amazon CloudFront

Associates an alias (also known as a CNAME or an alternate domain name) with a CloudFront distribution.

With this operation you can move an alias that's already in use on a CloudFront distribution to a different distribution in one step. This prevents the downtime that could occur if you first remove the alias from one distribution and then separately add the alias to another distribution.

To use this operation to associate an alias with a distribution, you provide the alias and the ID of the target distribution for the alias. For more information, including how to set up the target distribution, prerequisites that you must complete, and other restrictions, see [Moving an alternate domain name to a different distribution](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
PUT /2020-05-31/distribution/TargetDistributionId/associate-alias?Alias=Alias HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Alias

The alias (also known as a CNAME) to add to the target distribution.

Required: Yes

### TargetDistributionId

The ID of the distribution that you're associating the alias with.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchDistribution**

The specified distribution does not exist.

HTTP Status Code: 404

### **TooManyDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CopyDistribution

Service: Amazon CloudFront

Creates a staging distribution using the configuration of the provided primary distribution. A staging distribution is a copy of an existing distribution (called the primary distribution) that you can use in a continuous deployment workflow.

After you create a staging distribution, you can use `UpdateDistribution` to modify the staging distribution's configuration. Then you can use `CreateContinuousDeploymentPolicy` to incrementally move traffic to the staging distribution.

This API operation requires the following IAM permissions:

- [GetDistribution](#)
- [CreateDistribution](#)
- [CopyDistribution](#)

## Request Syntax

```
POST /2020-05-31/distribution/PrimaryDistributionId/copy HTTP/1.1
Staging: Staging
If-Match: IfMatch
<?xml version="1.0" encoding="UTF-8"?>
<CopyDistributionRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Enabled>boolean</Enabled>
</CopyDistributionRequest>
```

## URI Request Parameters

The request uses the following URI parameters.

### [If-Match](#)

The version identifier of the primary distribution whose configuration you are copying. This is the ETag value returned in the response to `GetDistribution` and `GetDistributionConfig`.

## PrimaryDistributionId

The identifier of the primary distribution whose configuration you are copying. To get a distribution ID, use `ListDistributions`.

Required: Yes

## Staging

The type of distribution that your primary distribution will be copied to. The only valid value is `True`, indicating that you are copying to a staging distribution.

## Request Body

The request accepts the following data in XML format.

## CopyDistributionRequest

Root level tag for the `CopyDistributionRequest` parameters.

Required: Yes

## CallerReference

A value that uniquely identifies a request to create a resource. This helps to prevent CloudFront from creating a duplicate resource if you accidentally resubmit an identical request.

Type: String

Required: Yes

## Enabled

A Boolean flag to specify the state of the staging distribution when it's created. When you set this value to `True`, the staging distribution is enabled. When you set this value to `False`, the staging distribution is disabled.

If you omit this field, the default value is `True`.

Type: Boolean

Required: No

## Response Syntax

```

HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<Distribution>
  <ActiveTrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>
        <KeyGroupId>string</KeyGroupId>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
        <Quantity>integer</Quantity>
      </KeyPairIds>
    </KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</ActiveTrustedKeyGroups>
<ActiveTrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <Signer>
      <AwsAccountNumber>string</AwsAccountNumber>
      <KeyPairIds>
        <Items>
          <KeyPairId>string</KeyPairId>
        </Items>
      <Quantity>integer</Quantity>
    </KeyPairIds>
  </Signer>
</Items>
  <Quantity>integer</Quantity>
</ActiveTrustedSigners>
<AliasICPRecordals>
  <AliasICPRecordal>
    <CNAME>string</CNAME>
    <ICPRecordalStatus>string</ICPRecordalStatus>
  </AliasICPRecordal>
</AliasICPRecordals>
<ARN>string</ARN>
<DistributionConfig>

```

```

<Aliases>
  <Items>
    <CNAME>string</CNAME>
  </Items>
  <Quantity>integer</Quantity>
</Aliases>
<AnycastIpListId>string</AnycastIpListId>
<CacheBehaviors>
  <Items>
    <CacheBehavior>
      <AllowedMethods>
        <CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </CachedMethods>
        <Items>
          <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
      </AllowedMethods>
      <CachePolicyId>string</CachePolicyId>
      <Compress>boolean</Compress>
      <DefaultTTL>long</DefaultTTL>
      <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
      <ForwardedValues>
        <Cookies>
          <Forward>string</Forward>
          <WhitelistedNames>
            <Items>
              <Name>string</Name>
            </Items>
            <Quantity>integer</Quantity>
          </WhitelistedNames>
        </Cookies>
        <Headers>
          <Items>
            <Name>string</Name>
          </Items>
          <Quantity>integer</Quantity>
        </Headers>
        <QueryString>boolean</QueryString>
        <QueryStringCacheKeys>

```



```

    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>

```

```

        <Enabled>boolean</Enabled>
        <Items>
            <AwsAccountNumber>string</AwsAccountNumber>
        </Items>
        <Quantity>integer</Quantity>
    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
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</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
    <Items>
        <CustomErrorResponse>
            <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
            <ErrorCode>integer</ErrorCode>
            <ResponseCode>string</ResponseCode>
            <ResponsePagePath>string</ResponsePagePath>
        </CustomErrorResponse>
    </Items>
    <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
    <AllowedMethods>
        <CachedMethods>
            <Items>
                <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
        </CachedMethods>
        <Items>
            <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
    </AllowedMethods>
    <CachePolicyId>string</CachePolicyId>
    <Compress>boolean</Compress>
    <DefaultTTL>long</DefaultTTL>
    <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
    <ForwardedValues>
        <Cookies>

```

```

    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>

```

```

<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
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            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
    </OriginGroup>
  </Items>
</OriginGroups>

```

```

<Id>string</Id>
<Members>
  <Items>
    <OriginGroupMember>
      <OriginId>string</OriginId>
    </OriginGroupMember>
  </Items>
  <Quantity>integer</Quantity>
</Members>
<SelectionCriteria>string</SelectionCriteria>
</OriginGroup>
</Items>
<Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
        <HTTPSPort>integer</HTTPSPort>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginProtocolPolicy>string</OriginProtocolPolicy>
        <OriginReadTimeout>integer</OriginReadTimeout>
        <OriginSslProtocols>
          <Items>
            <SslProtocol>string</SslProtocol>
          </Items>
          <Quantity>integer</Quantity>
        </OriginSslProtocols>
      </CustomOriginConfig>
      <DomainName>string</DomainName>
    </Origin>
  </Items>
  <Quantity>integer</Quantity>
</Origins>
<Id>string</Id>
<OriginAccessControlId>string</OriginAccessControlId>

```

```

    <OriginPath>string</OriginPath>
    <OriginShield>
      <Enabled>boolean</Enabled>
      <OriginShieldRegion>string</OriginShieldRegion>
    </OriginShield>
    <S3OriginConfig>
      <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3OriginConfig>
    <VpcOriginConfig>
      <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
      <OriginReadTimeout>integer</OriginReadTimeout>
      <VpcOriginId>string</VpcOriginId>
    </VpcOriginConfig>
  </Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>
<DomainName>string</DomainName>
<Id>string</Id>
<InProgressInvalidationBatches>integer</InProgressInvalidationBatches>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>

```

```
</Distribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### Distribution

Root level tag for the Distribution parameters.

Required: Yes

### ActiveTrustedKeyGroups

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

### ActiveTrustedSigners

#### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

### AliasICPRecordals

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

## ARN

The distribution's Amazon Resource Name (ARN).

Type: String

## DistributionConfig

The distribution's configuration.

Type: [DistributionConfig](#) object

## DomainName

The distribution's CloudFront domain name. For example:  
d111111abcdef8.cloudfront.net.

Type: String

## Id

The distribution's identifier. For example: E1U5RQF7T870K0.

Type: String

## InProgressInvalidationBatches

The number of invalidation batches currently in progress.

Type: Integer

## LastModifiedTime

The date and time when the distribution was last modified.

Type: Timestamp

## Status

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).



**AccessDenied**

Access denied.

HTTP Status Code: 403

**CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

**DistributionAlreadyExists**

The caller reference you attempted to create the distribution with is associated with another distribution.

HTTP Status Code: 409

**IllegalFieldLevelEncryptionConfigAssociationWithCacheBehavior**

The specified configuration for field-level encryption can't be associated with the specified cache behavior.

HTTP Status Code: 400

**InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

**InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

**InvalidDefaultRootObject**

The default root object file name is too big or contains an invalid character.

HTTP Status Code: 400

**InvalidErrorCode**

An invalid error code was specified.

HTTP Status Code: 400

### **InvalidForwardCookies**

Your request contains forward cookies option which doesn't match with the expectation for the `whitelisted` list of cookie names. Either list of cookie names has been specified when not allowed or list of cookie names is missing when expected.

HTTP Status Code: 400

### **InvalidFunctionAssociation**

A CloudFront function association is invalid.

HTTP Status Code: 400

### **InvalidGeoRestrictionParameter**

The specified geo restriction parameter is not valid.

HTTP Status Code: 400

### **InvalidHeadersForS3Origin**

The headers specified are not valid for an Amazon S3 origin.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The `If-Match` version is missing or not valid.

HTTP Status Code: 400

### **InvalidLambdaFunctionAssociation**

The specified `Lambda@Edge` function association is invalid.

HTTP Status Code: 400

### **InvalidLocationCode**

The location code specified is not valid.

HTTP Status Code: 400

### **InvalidMinimumProtocolVersion**

The minimum protocol version specified is not valid.

HTTP Status Code: 400

### **InvalidOrigin**

The Amazon S3 origin server specified does not refer to a valid Amazon S3 bucket.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **InvalidOriginKeepaliveTimeout**

The keep alive timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidOriginReadTimeout**

The read timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidProtocolSettings**

You cannot specify SSLv3 as the minimum protocol version if you only want to support only clients that support Server Name Indication (SNI).

HTTP Status Code: 400

### **InvalidQueryStringParameters**

The query string parameters specified are not valid.

HTTP Status Code: 400

### **InvalidRelativePath**

The relative path is too big, is not URL-encoded, or does not begin with a slash (/).

HTTP Status Code: 400

### **InvalidRequiredProtocol**

This operation requires the HTTPS protocol. Ensure that you specify the HTTPS protocol in your request, or omit the `RequiredProtocols` element from your distribution configuration.

HTTP Status Code: 400

### **InvalidResponseCode**

A response code is not valid.

HTTP Status Code: 400

### **InvalidTTLOrder**

The TTL order specified is not valid.

HTTP Status Code: 400

### **InvalidViewerCertificate**

A viewer certificate specified is not valid.

HTTP Status Code: 400

### **InvalidWebACLId**

A web ACL ID specified is not valid. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/473e64fd-f30b-4765-81a0-62ad96dd167a`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `473e64fd-f30b-4765-81a0-62ad96dd167a`.

HTTP Status Code: 400

### **MissingBody**

This operation requires a body. Ensure that the body is present and the `Content-Type` header is set.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

### **NoSuchDistribution**

The specified distribution does not exist.

HTTP Status Code: 404

### **NoSuchFieldLevelEncryptionConfig**

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

### **NoSuchOrigin**

No origin exists with the specified `Origin Id`.

HTTP Status Code: 404

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to `false`.

HTTP Status Code: 412

### **RealtimeLogConfigOwnerMismatch**

The specified real-time log configuration belongs to a different AWS account.

HTTP Status Code: 401

### **TooManyCacheBehaviors**

You cannot create more cache behaviors for the distribution.

HTTP Status Code: 400

### **TooManyCertificates**

You cannot create anymore custom SSL/TLS certificates.

HTTP Status Code: 400

### **TooManyCookieNamesInWhiteList**

Your request contains more cookie names in the whitelist than are allowed per cache behavior.

HTTP Status Code: 400

### **TooManyDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

### **TooManyDistributions**

Processing your request would cause you to exceed the maximum number of distributions allowed.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToCachePolicy**

The maximum number of distributions have been associated with the specified cache policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToFieldLevelEncryptionConfig**

The maximum number of distributions have been associated with the specified configuration for field-level encryption.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToKeyGroup**

The number of distributions that reference this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginAccessControl**

The maximum number of distributions have been associated with the specified origin access control.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginRequestPolicy**

The maximum number of distributions have been associated with the specified origin request policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToResponseHeadersPolicy**

The maximum number of distributions have been associated with the specified response headers policy.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithFunctionAssociations**

You have reached the maximum number of distributions that are associated with a CloudFront function. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithLambdaAssociations**

Processing your request would cause the maximum number of distributions with Lambda@Edge function associations per owner to be exceeded.

HTTP Status Code: 400

### **TooManyDistributionsWithSingleFunctionARN**

The maximum number of distributions have been associated with the specified Lambda@Edge function.

HTTP Status Code: 400

### **TooManyFunctionAssociations**

You have reached the maximum number of CloudFront function associations for this distribution. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyHeadersInForwardedValues**

Your request contains too many headers in forwarded values.

HTTP Status Code: 400

### **TooManyKeyGroupsAssociatedToDistribution**

The number of key groups referenced by this distribution is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyLambdaFunctionAssociations**

Your request contains more Lambda@Edge function associations than are allowed per distribution.

HTTP Status Code: 400

### **TooManyOriginCustomHeaders**

Your request contains too many origin custom headers.



HTTP Status Code: 400

### **TooManyOriginGroupsPerDistribution**

Processing your request would cause you to exceed the maximum number of origin groups allowed.

HTTP Status Code: 400

### **TooManyOrigins**

You cannot create more origins for the distribution.

HTTP Status Code: 400

### **TooManyQueryStringParameters**

Your request contains too many query string parameters.

HTTP Status Code: 400

### **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

### **TrustedKeyGroupDoesNotExist**

The specified key group does not exist.

HTTP Status Code: 400

### **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAnycastIpList

Service: Amazon CloudFront

Creates an Anycast static IP list.

## Request Syntax

```
POST /2020-05-31/anycast-ip-list HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateAnycastIpListRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <IpCount>integer</IpCount>
  <Name>string</Name>
  <Tags>
    <Items>
      <Tag>
        <Key>string</Key>
        <Value>string</Value>
      </Tag>
    </Items>
  </Tags>
</CreateAnycastIpListRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [CreateAnycastIpListRequest](#)

Root level tag for the CreateAnycastIpListRequest parameters.

Required: Yes

### [IpCount](#)

The number of static IP addresses that are allocated to the Anycast static IP list.

Type: Integer

Required: Yes

## Name

Name of the Anycast static IP list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-]{1,64}

Required: Yes

## Tags

A complex type that contains zero or more Tag elements.

Type: [Tags](#) object

Required: No

## Response Syntax

```
HTTP/1.1 202
<?xml version="1.0" encoding="UTF-8"?>
<AnycastIpList>
  <AnycastIps>
    <AnycastIp>string</AnycastIp>
  </AnycastIps>
  <Arn>string</Arn>
  <Id>string</Id>
  <IpCount>integer</IpCount>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Name>string</Name>
  <Status>string</Status>
</AnycastIpList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

The following data is returned in XML format by the service.

## AnycastIpList

Root level tag for the AnycastIpList parameters.

Required: Yes

## AnycastIps

The static IP addresses that are allocated to the Anycast static IP list.

Type: Array of strings

## Arn

The Amazon Resource Name (ARN) of the Anycast static IP list.

Type: String

## Id

The ID of the Anycast static IP list.

Type: String

## IpCount

The number of IP addresses in the Anycast static IP list.

Type: Integer

## LastModifiedTime

The last time the Anycast static IP list was modified.

Type: Timestamp

## Name

The name of the Anycast static IP list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-\_{1,64}

## Status

The status of the Anycast static IP list. Valid values: Deployed, Deploying, or Failed.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityAlreadyExists**

The entity already exists. You must provide a unique entity.

HTTP Status Code: 409

### **EntityLimitExceeded**

The entity limit has been exceeded.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidTagging**

The tagging specified is not valid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateCachePolicy

Service: Amazon CloudFront

Creates a cache policy.

After you create a cache policy, you can attach it to one or more cache behaviors. When it's attached to a cache behavior, the cache policy determines the following:

- The values that CloudFront includes in the *cache key*. These values can include HTTP headers, cookies, and URL query strings. CloudFront uses the cache key to find an object in its cache that it can return to the viewer.
- The default, minimum, and maximum time to live (TTL) values that you want objects to stay in the CloudFront cache.

The headers, cookies, and query strings that are included in the cache key are also included in requests that CloudFront sends to the origin. CloudFront sends a request when it can't find an object in its cache that matches the request's cache key. If you want to send values to the origin but *not* include them in the cache key, use `OriginRequestPolicy`.

For more information about cache policies, see [Controlling the cache key](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/cache-policy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <DefaultTTL>long</DefaultTTL>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <Name>string</Name>
  <ParametersInCacheKeyAndForwardedToOrigin>
    <CookiesConfig>
      <CookieBehavior>string</CookieBehavior>
      <Cookies>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </Cookies>
    </CookiesConfig>
  </ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>
```



```

    </Cookies>
  </CookiesConfig>
  <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
  <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <QueryStringsConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStrings>
  </QueryStringsConfig>
  </ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>

```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### CachePolicyConfig

Root level tag for the CachePolicyConfig parameters.

Required: Yes

### Comment

A comment to describe the cache policy. The comment cannot be longer than 128 characters.

Type: String

Required: No

### DefaultTTL

The default amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value as the object's time to live (TTL) only when the origin does *not* send `Cache-Control` or `Expires` headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 86400 seconds (one day). If the value of `MinTTL` is more than 86400 seconds, then the default value for this field is the same as the value of `MinTTL`.

Type: Long

Required: No

### MaxTTL

The maximum amount of time, in seconds, that objects stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value only when the origin sends `Cache-Control` or `Expires` headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 31536000 seconds (one year). If the value of `MinTTL` or `DefaultTTL` is more than 31536000 seconds, then the default value for this field is the same as the value of `DefaultTTL`.

Type: Long

Required: No

### MinTTL

The minimum amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: Yes

## Name

A unique name to identify the cache policy.

Type: String

Required: Yes

## ParametersInCacheKeyAndForwardedToOrigin

The HTTP headers, cookies, and URL query strings to include in the cache key. The values included in the cache key are also included in requests that CloudFront sends to the origin.

Type: [ParametersInCacheKeyAndForwardedToOrigin](#) object

Required: No

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicy>
  <CachePolicyConfig>
    <Comment>string</Comment>
    <DefaultTTL>long</DefaultTTL>
    <MaxTTL>long</MaxTTL>
    <MinTTL>long</MinTTL>
    <Name>string</Name>
    <ParametersInCacheKeyAndForwardedToOrigin>
      <CookiesConfig>
        <CookieBehavior>string</CookieBehavior>
        <Cookies>
          <Items>
            <Name>string</Name>
          </Items>
          <Quantity>integer</Quantity>
        </Cookies>
      </CookiesConfig>
      <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
      <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
      <HeadersConfig>
        <HeaderBehavior>string</HeaderBehavior>
```

```

    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <QueryStringConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStrings>
  </QueryStringConfig>
</ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</CachePolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### CachePolicy

Root level tag for the CachePolicy parameters.

Required: Yes

### CachePolicyConfig

The cache policy configuration.

Type: [CachePolicyConfig](#) object

### Id

The unique identifier for the cache policy.

Type: String

## **LastModifiedTime**

The date and time when the cache policy was last modified.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CachePolicyAlreadyExists**

A cache policy with this name already exists. You must provide a unique name. To modify an existing cache policy, use `UpdateCachePolicy`.

HTTP Status Code: 409

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **TooManyCachePolicies**

You have reached the maximum number of cache policies for this AWS account. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyCookiesInCachePolicy**

The number of cookies in the cache policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyHeadersInCachePolicy**

The number of headers in the cache policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyQueryStringsInCachePolicy**

The number of query strings in the cache policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateCloudFrontOriginAccessIdentity

Service: Amazon CloudFront

Creates a new origin access identity. If you're using Amazon S3 for your origin, you can use an origin access identity to require users to access your content using a CloudFront URL instead of the Amazon S3 URL. For more information about how to use origin access identities, see [Servicing Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/origin-access-identity/cloudfront HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentityConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
</CloudFrontOriginAccessIdentityConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [CloudFrontOriginAccessIdentityConfig](#)

Root level tag for the CloudFrontOriginAccessIdentityConfig parameters.

Required: Yes

### [CallerReference](#)

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of CallerReference is new (regardless of the content of the CloudFrontOriginAccessIdentityConfig object), a new origin access identity is created.

If the CallerReference is a value already sent in a previous identity request, and the content of the CloudFrontOriginAccessIdentityConfig is identical to the original request

(ignoring white space), the response includes the same information returned to the original request.

If the `CallerReference` is a value you already sent in a previous request to create an identity, but the content of the `CloudFrontOriginAccessIdentityConfig` is different from the original request, CloudFront returns a `CloudFrontOriginAccessIdentityAlreadyExists` error.

Type: String

Required: Yes

### Comment

A comment to describe the origin access identity. The comment cannot be longer than 128 characters.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentity>
  <CloudFrontOriginAccessIdentityConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
  </CloudFrontOriginAccessIdentityConfig>
  <Id>string</Id>
  <S3CanonicalUserId>string</S3CanonicalUserId>
</CloudFrontOriginAccessIdentity>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### CloudFrontOriginAccessIdentity

Root level tag for the `CloudFrontOriginAccessIdentity` parameters.



Required: Yes

### **CloudFrontOriginAccessIdentityConfig**

The current configuration information for the identity.

Type: [CloudFrontOriginAccessIdentityConfig](#) object

### **Id**

The ID for the origin access identity, for example, E74FTE3AJFJ256A.

Type: String

### **S3CanonicalUserId**

The Amazon S3 canonical user ID for the origin access identity, used when giving the origin access identity read permission to an object in Amazon S3.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **CloudFrontOriginAccessIdentityAlreadyExists**

If the `CallerReference` is a value you already sent in a previous request to create an identity but the content of the `CloudFrontOriginAccessIdentityConfig` is different from the original request, CloudFront returns a `CloudFrontOriginAccessIdentityAlreadyExists` error.

HTTP Status Code: 409

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## MissingBody

This operation requires a body. Ensure that the body is present and the Content-Type header is set.

HTTP Status Code: 400

## TooManyCloudFrontOriginAccessIdentities

Processing your request would cause you to exceed the maximum number of origin access identities allowed.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## CreateContinuousDeploymentPolicy

Service: Amazon CloudFront

Creates a continuous deployment policy that distributes traffic for a custom domain name to two different CloudFront distributions.

To use a continuous deployment policy, first use `CopyDistribution` to create a staging distribution, then use `UpdateDistribution` to modify the staging distribution's configuration.

After you create and update a staging distribution, you can use a continuous deployment policy to incrementally move traffic to the staging distribution. This workflow enables you to test changes to a distribution's configuration before moving all of your domain's production traffic to the new configuration.

### Request Syntax

```
POST /2020-05-31/continuous-deployment-policy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Enabled>boolean</Enabled>
  <StagingDistributionDnsNames>
    <Items>
      <DnsName>string</DnsName>
    </Items>
    <Quantity>integer</Quantity>
  </StagingDistributionDnsNames>
  <TrafficConfig>
    <SingleHeaderConfig>
      <Header>string</Header>
      <Value>string</Value>
    </SingleHeaderConfig>
    <SingleWeightConfig>
      <SessionStickinessConfig>
        <IdleTTL>integer</IdleTTL>
        <MaximumTTL>integer</MaximumTTL>
      </SessionStickinessConfig>
      <Weight>float</Weight>
    </SingleWeightConfig>
    <Type>string</Type>
  </TrafficConfig>
</ContinuousDeploymentPolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### ContinuousDeploymentPolicyConfig

Root level tag for the ContinuousDeploymentPolicyConfig parameters.

Required: Yes

#### Enabled

A Boolean that indicates whether this continuous deployment policy is enabled (in effect). When this value is `true`, this policy is enabled and in effect. When this value is `false`, this policy is not enabled and has no effect.

Type: Boolean

Required: Yes

### StagingDistributionDnsNames

The CloudFront domain name of the staging distribution. For example: `d111111abcdef8.cloudfront.net`.

Type: [StagingDistributionDnsNames](#) object

Required: Yes

### TrafficConfig

Contains the parameters for routing production traffic from your primary to staging distributions.

Type: [TrafficConfig](#) object

Required: No

## Response Syntax

```
HTTP/1.1 201
```

```

<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicy>
  <ContinuousDeploymentPolicyConfig>
    <Enabled>boolean</Enabled>
    <StagingDistributionDnsNames>
      <Items>
        <DnsName>string</DnsName>
      </Items>
    <Quantity>integer</Quantity>
  </StagingDistributionDnsNames>
  <TrafficConfig>
    <SingleHeaderConfig>
      <Header>string</Header>
      <Value>string</Value>
    </SingleHeaderConfig>
    <SingleWeightConfig>
      <SessionStickinessConfig>
        <IdleTTL>integer</IdleTTL>
        <MaximumTTL>integer</MaximumTTL>
      </SessionStickinessConfig>
      <Weight>float</Weight>
    </SingleWeightConfig>
    <Type>string</Type>
  </TrafficConfig>
</ContinuousDeploymentPolicyConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</ContinuousDeploymentPolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### [ContinuousDeploymentPolicy](#)

Root level tag for the ContinuousDeploymentPolicy parameters.

Required: Yes

### [ContinuousDeploymentPolicyConfig](#)

Contains the configuration for a continuous deployment policy.

Type: [ContinuousDeploymentPolicyConfig](#) object

### **Id**

The identifier of the continuous deployment policy.

Type: String

### **LastModifiedTime**

The date and time the continuous deployment policy was last modified.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **ContinuousDeploymentPolicyAlreadyExists**

A continuous deployment policy with this configuration already exists.

HTTP Status Code: 409

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **StagingDistributionInUse**

A continuous deployment policy for this staging distribution already exists.

HTTP Status Code: 409

## TooManyContinuousDeploymentPolicies

You have reached the maximum number of continuous deployment policies for this AWS account.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateDistribution

Service: Amazon CloudFront

Creates a CloudFront distribution.

## Request Syntax

```
POST /2020-05-31/distribution HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DistributionConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AnycastIpListId>string</AnycastIpListId>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
          </CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </AllowedMethods>
        <CachePolicyId>string</CachePolicyId>
        <Compress>boolean</Compress>
        <DefaultTTL>long</DefaultTTL>
        <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
        <ForwardedValues>
          <Cookies>
            <Forward>string</Forward>
            <WhitelistedNames>
              <Items>
                <Name>string</Name>
              </Items>
            </Cookies>
          </ForwardedValues>
        </CacheBehavior>
      </Items>
    </CacheBehaviors>
  </DistributionConfig>
```



```

        <Quantity>integer</Quantity>
    </WhitelistedNames>
</Cookies>
<Headers>
    <Items>
        <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
</Headers>
<QueryString>boolean</QueryString>
<QueryStringCacheKeys>
    <Items>
        <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
</QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
    <Items>
        <FunctionAssociation>
            <EventType>string</EventType>
            <FunctionARN>string</FunctionARN>
        </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
    <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
    <Items>
        <LambdaFunctionAssociation>
            <EventType>string</EventType>
            <IncludeBody>boolean</IncludeBody>
            <LambdaFunctionARN>string</LambdaFunctionARN>
        </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>

```

```

<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </CachedMethods>

```

```

    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>
      <WhitelistedNames>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </WhitelistedNames>
    </Cookies>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
  </ForwardedValues>
  <FunctionAssociations>
    <Items>
      <FunctionAssociation>
        <EventType>string</EventType>
        <FunctionARN>string</FunctionARN>
      </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>

```

```

</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>

```

```

<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>
          </OriginGroupMember>
        </Items>
        <Quantity>integer</Quantity>
      </Members>
      <SelectionCriteria>string</SelectionCriteria>
    </OriginGroup>
  </Items>
  <Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
        <HTTPSPort>integer</HTTPSPort>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginProtocolPolicy>string</OriginProtocolPolicy>
      </CustomOriginConfig>
    </Origin>
  </Items>
  <Quantity>integer</Quantity>
</Origins>

```

```

    <OriginReadTimeout>integer</OriginReadTimeout>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </CustomOriginConfig>
  <DomainName>string</DomainName>
  <Id>string</Id>
  <OriginAccessControlId>string</OriginAccessControlId>
  <OriginPath>string</OriginPath>
  <OriginShield>
    <Enabled>boolean</Enabled>
    <OriginShieldRegion>string</OriginShieldRegion>
  </OriginShield>
  <S3OriginConfig>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3OriginConfig>
  <VpcOriginConfig>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <VpcOriginId>string</VpcOriginId>
  </VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>

```

```
<IAMCertificateId>string</IAMCertificateId>  
<MinimumProtocolVersion>string</MinimumProtocolVersion>  
<SSLSupportMethod>string</SSLSupportMethod>  
</ViewerCertificate>  
<WebACLId>string</WebACLId>  
</DistributionConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [DistributionConfig](#)

Root level tag for the `DistributionConfig` parameters.

Required: Yes

### [Aliases](#)

A complex type that contains information about CNAMEs (alternate domain names), if any, for this distribution.

Type: [Aliases](#) object

Required: No

### [AnycastIpListId](#)

ID of the Anycast static IP list that is associated with the distribution.

Type: String

Required: No

### [CacheBehaviors](#)

A complex type that contains zero or more `CacheBehavior` elements.

Type: [CacheBehaviors](#) object

Required: No

## CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `DistributionConfig` object), CloudFront creates a new distribution.

If `CallerReference` is a value that you already sent in a previous request to create a distribution, CloudFront returns a `DistributionAlreadyExists` error.

Type: String

Required: Yes

## Comment

A comment to describe the distribution. The comment cannot be longer than 128 characters.

Type: String

Required: Yes

## ContinuousDeploymentPolicyId

The identifier of a continuous deployment policy. For more information, see `CreateContinuousDeploymentPolicy`.

Type: String

Required: No

## CustomErrorResponses

A complex type that controls the following:

- Whether CloudFront replaces HTTP status codes in the 4xx and 5xx range with custom error messages before returning the response to the viewer.
- How long CloudFront caches HTTP status codes in the 4xx and 5xx range.

For more information about custom error pages, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

Type: [CustomErrorResponses](#) object

Required: No



## DefaultCacheBehavior

A complex type that describes the default cache behavior if you don't specify a `CacheBehavior` element or if files don't match any of the values of `PathPattern` in `CacheBehavior` elements. You must create exactly one default cache behavior.

Type: [DefaultCacheBehavior](#) object

Required: Yes

## DefaultRootObject

When a viewer requests the root URL for your distribution, the default root object is the object that you want CloudFront to request from your origin. For example, if your root URL is `https://www.example.com`, you can specify CloudFront to return the `index.html` file as the default root object. You can specify a default root object so that viewers see a specific file or object, instead of another object in your distribution (for example, `https://www.example.com/product-description.html`). A default root object avoids exposing the contents of your distribution.

You can specify the object name or a path to the object name (for example, `index.html` or `exampleFolderName/index.html`). Your string can't begin with a forward slash (/). Only specify the object name or the path to the object.

If you don't want to specify a default root object when you create a distribution, include an empty `DefaultRootObject` element.

To delete the default root object from an existing distribution, update the distribution configuration and include an empty `DefaultRootObject` element.

To replace the default root object, update the distribution configuration and specify the new object.

For more information about the default root object, see [Specify a default root object](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

## Enabled

From this field, you can enable or disable the selected distribution.

Type: Boolean

Required: Yes

### HttpVersion

(Optional) Specify the HTTP version(s) that you want viewers to use to communicate with CloudFront. The default value for new web distributions is `http2`. Viewers that don't support HTTP/2 automatically use an earlier HTTP version.

For viewers and CloudFront to use HTTP/2, viewers must support TLSv1.2 or later, and must support Server Name Indication (SNI).

For viewers and CloudFront to use HTTP/3, viewers must support TLSv1.3 and Server Name Indication (SNI). CloudFront supports HTTP/3 connection migration to allow the viewer to switch networks without losing connection. For more information about connection migration, see [Connection Migration](#) at RFC 9000. For more information about supported TLSv1.3 ciphers, see [Supported protocols and ciphers between viewers and CloudFront](#).

Type: String

Valid Values: `http1.1` | `http2` | `http3` | `http2and3`

Required: No

### IsIPv6Enabled

If you want CloudFront to respond to IPv6 DNS requests with an IPv6 address for your distribution, specify `true`. If you specify `false`, CloudFront responds to IPv6 DNS requests with the DNS response code `NOERROR` and with no IP addresses. This allows viewers to submit a second request, for an IPv4 address for your distribution.

In general, you should enable IPv6 if you have users on IPv6 networks who want to access your content. However, if you're using signed URLs or signed cookies to restrict access to your content, and if you're using a custom policy that includes the `IpAddress` parameter to restrict the IP addresses that can access your content, don't enable IPv6. If you want to restrict access to some content by IP address and not restrict access to other content (or restrict access but not by IP address), you can create two distributions. For more information, see [Creating a Signed URL Using a Custom Policy](#) in the *Amazon CloudFront Developer Guide*.

If you're using an Amazon Route 53 AWS Integration alias resource record set to route traffic to your CloudFront distribution, you need to create a second alias resource record set when both of the following are true:

- You enable IPv6 for the distribution
- You're using alternate domain names in the URLs for your objects

For more information, see [Routing Traffic to an Amazon CloudFront Web Distribution by Using Your Domain Name](#) in the *Amazon Route 53 AWS Integration Developer Guide*.

If you created a CNAME resource record set, either with Amazon Route 53 AWS Integration or with another DNS service, you don't need to make any changes. A CNAME record will route traffic to your distribution regardless of the IP address format of the viewer request.

Type: Boolean

Required: No

### Logging

A complex type that controls whether access logs are written for the distribution.

For more information about logging, see [Access Logs](#) in the *Amazon CloudFront Developer Guide*.

Type: [LoggingConfig](#) object

Required: No

### OriginGroups

A complex type that contains information about origin groups for this distribution.

Type: [OriginGroups](#) object

Required: No

### Origins

A complex type that contains information about origins for this distribution.

Type: [Origins](#) object

Required: Yes

### PriceClass

The price class that corresponds with the maximum price that you want to pay for CloudFront service. If you specify `PriceClass_All`, CloudFront responds to requests for your objects from all CloudFront edge locations.

If you specify a price class other than `PriceClass_All`, CloudFront serves your objects from the CloudFront edge location that has the lowest latency among the edge locations in your price class. Viewers who are in or near regions that are excluded from your specified price class may encounter slower performance.

For more information about price classes, see [Choosing the Price Class for a CloudFront Distribution](#) in the *Amazon CloudFront Developer Guide*. For information about CloudFront pricing, including how price classes (such as Price Class 100) map to CloudFront regions, see [Amazon CloudFront Pricing](#).

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

Required: No

### **Restrictions**

A complex type that identifies ways in which you want to restrict distribution of your content.

Type: [Restrictions](#) object

Required: No

### **Staging**

A Boolean that indicates whether this is a staging distribution. When this value is `true`, this is a staging distribution. When this value is `false`, this is not a staging distribution.

Type: Boolean

Required: No

### **ViewerCertificate**

A complex type that determines the distribution's SSL/TLS configuration for communicating with viewers.

Type: [ViewerCertificate](#) object

Required: No

### **WebACLId**

A unique identifier that specifies the AWS WAF web ACL, if any, to associate with this distribution. To specify a web ACL created using the latest version of AWS WAF, use the

ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`.

AWS WAF is a web application firewall that lets you monitor the HTTP and HTTPS requests that are forwarded to CloudFront, and lets you control access to your content. Based on conditions that you specify, such as the IP addresses that requests originate from or the values of query strings, CloudFront responds to requests either with the requested content or with an HTTP 403 status code (Forbidden). You can also configure CloudFront to return a custom error page when a request is blocked. For more information about AWS WAF, see the [AWS WAF Developer Guide](#).

Type: String

Required: No

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<Distribution>
  <ActiveTrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>
        <KeyId>string</KeyId>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
        <Quantity>integer</Quantity>
      </KeyPairIds>
    </KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</ActiveTrustedKeyGroups>
<ActiveTrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <Signer>
      <AwsAccountNumber>string</AwsAccountNumber>
```

```

    <KeyPairIds>
      <Items>
        <KeyPairId>string</KeyPairId>
      </Items>
    </KeyPairIds>
  </Signer>
</Items>
<Quantity>integer</Quantity>
</ActiveTrustedSigners>
<AliasICPRecordals>
  <AliasICPRecordal>
    <CNAME>string</CNAME>
    <ICPRecordalStatus>string</ICPRecordalStatus>
  </AliasICPRecordal>
</AliasICPRecordals>
<ARN>string</ARN>
<DistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AnycastIpListId>string</AnycastIpListId>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
          </CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </AllowedMethods>
        <CachePolicyId>string</CachePolicyId>
        <Compress>boolean</Compress>
        <DefaultTTL>long</DefaultTTL>
        <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
      </CacheBehavior>
    </Items>
  </CacheBehaviors>

```

```

<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>

```

```

    <Quantity>integer</Quantity>
  </LambdaFunctionAssociations>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <OriginRequestPolicyId>string</OriginRequestPolicyId>
  <PathPattern>string</PathPattern>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedKeyGroups>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
  <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>

```



```

<AllowedMethods>
  <CachedMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </CachedMethods>
  <Items>
    <Method>string</Method>
  </Items>
  <Quantity>integer</Quantity>
</AllowedMethods>
<CachePolicyId>string</CachePolicyId>
<Compress>boolean</Compress>
<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
    </FunctionAssociation>
  </Items>
</FunctionAssociations>

```

```

        <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
</Items>
    <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
    <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
    <Items>
        <LambdaFunctionAssociation>
            <EventType>string</EventType>
            <IncludeBody>boolean</IncludeBody>
            <LambdaFunctionARN>string</LambdaFunctionARN>
        </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
        <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>

```

```

<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>
          </OriginGroupMember>
        </Items>
        <Quantity>integer</Quantity>
      </Members>
      <SelectionCriteria>string</SelectionCriteria>
    </OriginGroup>
  </Items>
  <Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
      </CustomHeaders>
    </Origin>
  </Items>

```

```

    <Quantity>integer</Quantity>
  </CustomHeaders>
  <CustomOriginConfig>
    <HTTPPort>integer</HTTPPort>
    <HTTPSPort>integer</HTTPSPort>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </CustomOriginConfig>
  <DomainName>string</DomainName>
  <Id>string</Id>
  <OriginAccessControlId>string</OriginAccessControlId>
  <OriginPath>string</OriginPath>
  <OriginShield>
    <Enabled>boolean</Enabled>
    <OriginShieldRegion>string</OriginShieldRegion>
  </OriginShield>
  <S3OriginConfig>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3OriginConfig>
  <VpcOriginConfig>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <VpcOriginId>string</VpcOriginId>
  </VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>

```

```

</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>
<DomainName>string</DomainName>
<Id>string</Id>
<InProgressInvalidationBatches>integer</InProgressInvalidationBatches>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>
</Distribution>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### Distribution

Root level tag for the Distribution parameters.

Required: Yes

### ActiveTrustedKeyGroups

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

### ActiveTrustedSigners

#### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

### [AliasICPRecordals](#)

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. [AliasICPRecordal](#) provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

### [ARN](#)

The distribution's Amazon Resource Name (ARN).

Type: String

### [DistributionConfig](#)

The distribution's configuration.

Type: [DistributionConfig](#) object

### [DomainName](#)

The distribution's CloudFront domain name. For example:  
d111111abcdef8.cloudfront.net.

Type: String

### [Id](#)

The distribution's identifier. For example: E1U5RQF7T870K0.

Type: String

### [InProgressInvalidationBatches](#)

The number of invalidation batches currently in progress.

Type: Integer

### **LastModifiedTime**

The date and time when the distribution was last modified.

Type: Timestamp

### **Status**

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

### **ContinuousDeploymentPolicyInUse**

You cannot delete a continuous deployment policy that is associated with a primary distribution.

HTTP Status Code: 409

### **DistributionAlreadyExists**

The caller reference you attempted to create the distribution with is associated with another distribution.

HTTP Status Code: 409

## **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

## **IllegalFieldLevelEncryptionConfigAssociationWithCacheBehavior**

The specified configuration for field-level encryption can't be associated with the specified cache behavior.

HTTP Status Code: 400

## **IllegalOriginAccessConfiguration**

An origin cannot contain both an origin access control (OAC) and an origin access identity (OAI).

HTTP Status Code: 400

## **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

## **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **InvalidDefaultRootObject**

The default root object file name is too big or contains an invalid character.

HTTP Status Code: 400

## **InvalidDomainNameForOriginAccessControl**

An origin access control is associated with an origin whose domain name is not supported.

HTTP Status Code: 400

## **InvalidErrorCode**

An invalid error code was specified.

HTTP Status Code: 400



## **InvalidForwardCookies**

Your request contains forward cookies option which doesn't match with the expectation for the whitelisted list of cookie names. Either list of cookie names has been specified when not allowed or list of cookie names is missing when expected.

HTTP Status Code: 400

## **InvalidFunctionAssociation**

A CloudFront function association is invalid.

HTTP Status Code: 400

## **InvalidGeoRestrictionParameter**

The specified geo restriction parameter is not valid.

HTTP Status Code: 400

## **InvalidHeadersForS3Origin**

The headers specified are not valid for an Amazon S3 origin.

HTTP Status Code: 400

## **InvalidLambdaFunctionAssociation**

The specified Lambda@Edge function association is invalid.

HTTP Status Code: 400

## **InvalidLocationCode**

The location code specified is not valid.

HTTP Status Code: 400

## **InvalidMinimumProtocolVersion**

The minimum protocol version specified is not valid.

HTTP Status Code: 400

## **InvalidOrigin**

The Amazon S3 origin server specified does not refer to a valid Amazon S3 bucket.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **InvalidOriginKeepaliveTimeout**

The keep alive timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidOriginReadTimeout**

The read timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidProtocolSettings**

You cannot specify SSLv3 as the minimum protocol version if you only want to support only clients that support Server Name Indication (SNI).

HTTP Status Code: 400

### **InvalidQueryStringParameters**

The query string parameters specified are not valid.

HTTP Status Code: 400

### **InvalidRelativePath**

The relative path is too big, is not URL-encoded, or does not begin with a slash (/).

HTTP Status Code: 400

### **InvalidRequiredProtocol**

This operation requires the HTTPS protocol. Ensure that you specify the HTTPS protocol in your request, or omit the `RequiredProtocols` element from your distribution configuration.

HTTP Status Code: 400

### **InvalidResponseCode**

A response code is not valid.

HTTP Status Code: 400

### **InvalidTTLOrder**

The TTL order specified is not valid.

HTTP Status Code: 400

### **InvalidViewerCertificate**

A viewer certificate specified is not valid.

HTTP Status Code: 400

### **InvalidWebACLId**

A web ACL ID specified is not valid. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/473e64fd-f30b-4765-81a0-62ad96dd167a`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `473e64fd-f30b-4765-81a0-62ad96dd167a`.

HTTP Status Code: 400

### **MissingBody**

This operation requires a body. Ensure that the body is present and the Content-Type header is set.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

### **NoSuchContinuousDeploymentPolicy**

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

### **NoSuchFieldLevelEncryptionConfig**

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

### **NoSuchOrigin**

No origin exists with the specified `Origin Id`.

HTTP Status Code: 404

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

### **RealtimeLogConfigOwnerMismatch**

The specified real-time log configuration belongs to a different AWS account.

HTTP Status Code: 401

### **TooManyCacheBehaviors**

You cannot create more cache behaviors for the distribution.

HTTP Status Code: 400

### **TooManyCertificates**

You cannot create anymore custom SSL/TLS certificates.

HTTP Status Code: 400

### **TooManyCookieNamesInWhiteList**

Your request contains more cookie names in the whitelist than are allowed per cache behavior.

HTTP Status Code: 400

### **TooManyDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

### **TooManyDistributions**

Processing your request would cause you to exceed the maximum number of distributions allowed.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToCachePolicy**

The maximum number of distributions have been associated with the specified cache policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToFieldLevelEncryptionConfig**

The maximum number of distributions have been associated with the specified configuration for field-level encryption.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToKeyGroup**

The number of distributions that reference this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginAccessControl**

The maximum number of distributions have been associated with the specified origin access control.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginRequestPolicy**

The maximum number of distributions have been associated with the specified origin request policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToResponseHeadersPolicy**

The maximum number of distributions have been associated with the specified response headers policy.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithFunctionAssociations**

You have reached the maximum number of distributions that are associated with a CloudFront function. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithLambdaAssociations**

Processing your request would cause the maximum number of distributions with Lambda@Edge function associations per owner to be exceeded.

HTTP Status Code: 400

### **TooManyDistributionsWithSingleFunctionARN**

The maximum number of distributions have been associated with the specified Lambda@Edge function.

HTTP Status Code: 400

## TooManyFunctionAssociations

You have reached the maximum number of CloudFront function associations for this distribution. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyHeadersInForwardedValues

Your request contains too many headers in forwarded values.

HTTP Status Code: 400

## TooManyKeyGroupsAssociatedToDistribution

The number of key groups referenced by this distribution is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyLambdaFunctionAssociations

Your request contains more Lambda@Edge function associations than are allowed per distribution.

HTTP Status Code: 400

## TooManyOriginCustomHeaders

Your request contains too many origin custom headers.

HTTP Status Code: 400

## TooManyOriginGroupsPerDistribution

Processing your request would cause you to exceed the maximum number of origin groups allowed.

HTTP Status Code: 400

## TooManyOrigins

You cannot create more origins for the distribution.

HTTP Status Code: 400

## **TooManyQueryStringParameters**

Your request contains too many query string parameters.

HTTP Status Code: 400

## **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

## **TrustedKeyGroupDoesNotExist**

The specified key group does not exist.

HTTP Status Code: 400

## **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateDistributionWithTags

Service: Amazon CloudFront

Create a new distribution with tags. This API operation requires the following IAM permissions:

- [CreateDistribution](#)
- [TagResource](#)

## Request Syntax

```
POST /2020-05-31/distribution?WithTags HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DistributionConfigWithTags xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <DistributionConfig>
    <Aliases>
      <Items>
        <CNAME>string</CNAME>
      </Items>
      <Quantity>integer</Quantity>
    </Aliases>
    <AnycastIpListId>string</AnycastIpListId>
    <CacheBehaviors>
      <Items>
        <CacheBehavior>
          <AllowedMethods>
            <CachedMethods>
              <Items>
                <Method>string</Method>
              </Items>
              <Quantity>integer</Quantity>
            </CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
          </AllowedMethods>
          <CachePolicyId>string</CachePolicyId>
          <Compress>boolean</Compress>
          <DefaultTTL>long</DefaultTTL>
          <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
          <ForwardedValues>
            <Cookies>
```

```

    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
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  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
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  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>

```

```

    <MaxTTL>long</MaxTTL>
    <MinTTL>long</MinTTL>
    <OriginRequestPolicyId>string</OriginRequestPolicyId>
    <PathPattern>string</PathPattern>
    <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
    <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
    <SmoothStreaming>boolean</SmoothStreaming>
    <TargetOriginId>string</TargetOriginId>
    <TrustedKeyGroups>
      <Enabled>boolean</Enabled>
      <Items>
        <KeyGroup>string</KeyGroup>
      </Items>
      <Quantity>integer</Quantity>
    </TrustedKeyGroups>
    <TrustedSigners>
      <Enabled>boolean</Enabled>
      <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
      </Items>
      <Quantity>integer</Quantity>
    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
  </CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>

```

```

    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </CachedMethods>
  <Items>
    <Method>string</Method>
  </Items>
  <Quantity>integer</Quantity>
</AllowedMethods>
<CachePolicyId>string</CachePolicyId>
<Compress>boolean</Compress>
<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
</FunctionAssociations>

```

```

    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>
  <LambdaFunctionAssociations>
    <Items>
      <LambdaFunctionAssociation>
        <EventType>string</EventType>
        <IncludeBody>boolean</IncludeBody>
        <LambdaFunctionARN>string</LambdaFunctionARN>
      </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </LambdaFunctionAssociations>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <OriginRequestPolicyId>string</OriginRequestPolicyId>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedKeyGroups>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
  <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>

```

```

    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <IncludeCookies>boolean</IncludeCookies>
    <Prefix>string</Prefix>
  </Logging>
  <OriginGroups>
    <Items>
      <OriginGroup>
        <FailoverCriteria>
          <StatusCodes>
            <Items>
              <StatusCode>integer</StatusCode>
            </Items>
            <Quantity>integer</Quantity>
          </StatusCodes>
        </FailoverCriteria>
        <Id>string</Id>
        <Members>
          <Items>
            <OriginGroupMember>
              <OriginId>string</OriginId>
            </OriginGroupMember>
          </Items>
          <Quantity>integer</Quantity>
        </Members>
        <SelectionCriteria>string</SelectionCriteria>
      </OriginGroup>
    </Items>
    <Quantity>integer</Quantity>
  </OriginGroups>
  <Origins>
    <Items>
      <Origin>
        <ConnectionAttempts>integer</ConnectionAttempts>
        <ConnectionTimeout>integer</ConnectionTimeout>
        <CustomHeaders>
          <Items>
            <OriginCustomHeader>
              <HeaderName>string</HeaderName>
              <HeaderValue>string</HeaderValue>
            </OriginCustomHeader>
          </Items>
          <Quantity>integer</Quantity>
        </CustomHeaders>
      </Origin>
    </Items>
  </Origins>

```

```

<CustomOriginConfig>
  <HTTPPort>integer</HTTPPort>
  <HTTPSPort>integer</HTTPSPort>
  <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
  <OriginProtocolPolicy>string</OriginProtocolPolicy>
  <OriginReadTimeout>integer</OriginReadTimeout>
  <OriginSslProtocols>
    <Items>
      <SslProtocol>string</SslProtocol>
    </Items>
    <Quantity>integer</Quantity>
  </OriginSslProtocols>
</CustomOriginConfig>
<DomainName>string</DomainName>
<Id>string</Id>
<OriginAccessControlId>string</OriginAccessControlId>
<OriginPath>string</OriginPath>
<OriginShield>
  <Enabled>boolean</Enabled>
  <OriginShieldRegion>string</OriginShieldRegion>
</OriginShield>
<S3OriginConfig>
  <OriginAccessIdentity>string</OriginAccessIdentity>
</S3OriginConfig>
<VpcOriginConfig>
  <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
  <OriginReadTimeout>integer</OriginReadTimeout>
  <VpcOriginId>string</VpcOriginId>
</VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>

```

```

<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
<WebACLId>string</WebACLId>
</DistributionConfig>
<Tags>
  <Items>
    <Tag>
      <Key>string</Key>
      <Value>string</Value>
    </Tag>
  </Items>
</Tags>
</DistributionConfigWithTags>

```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### DistributionConfigWithTags

Root level tag for the DistributionConfigWithTags parameters.

Required: Yes

### DistributionConfig

A distribution configuration.

Type: [DistributionConfig](#) object

Required: Yes

### Tags

A complex type that contains zero or more Tag elements.



Type: [Tags](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<Distribution>
  <ActiveTrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>
        <KeyGroupId>string</KeyGroupId>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedKeyGroups>
  <ActiveTrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <Signer>
        <AwsAccountNumber>string</AwsAccountNumber>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </Signer>
    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedSigners>
  <AliasICPRecordals>
    <AliasICPRecordal>
      <CNAME>string</CNAME>
      <ICPRecordalStatus>string</ICPRecordalStatus>
    </AliasICPRecordal>
  </AliasICPRecordals>
</Distribution>
```

```

    </AliasICPRecordal>
</AliasICPRecords>
<ARN>string</ARN>
<DistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AnycastIpListId>string</AnycastIpListId>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
          </CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </AllowedMethods>
        <CachePolicyId>string</CachePolicyId>
        <Compress>boolean</Compress>
        <DefaultTTL>long</DefaultTTL>
        <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
        <ForwardedValues>
          <Cookies>
            <Forward>string</Forward>
            <WhitelistedNames>
              <Items>
                <Name>string</Name>
              </Items>
              <Quantity>integer</Quantity>
            </WhitelistedNames>
          </Cookies>
          <Headers>
            <Items>
              <Name>string</Name>
            </Items>
          </Headers>
        </ForwardedValues>
      </CacheBehavior>
    </Items>
  </CacheBehaviors>

```

```

        <Quantity>integer</Quantity>
    </Headers>
    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
        <Items>
            <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
    <Items>
        <FunctionAssociation>
            <EventType>string</EventType>
            <FunctionARN>string</FunctionARN>
        </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
    <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
    <Items>
        <LambdaFunctionAssociation>
            <EventType>string</EventType>
            <IncludeBody>boolean</IncludeBody>
            <LambdaFunctionARN>string</LambdaFunctionARN>
        </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
        <KeyGroup>string</KeyGroup>
    </Items>

```

```

        </Items>
        <Quantity>integer</Quantity>
    </TrustedKeyGroups>
    <TrustedSigners>
        <Enabled>boolean</Enabled>
        <Items>
            <AwsAccountNumber>string</AwsAccountNumber>
        </Items>
        <Quantity>integer</Quantity>
    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
    <Items>
        <CustomErrorResponse>
            <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
            <ErrorCode>integer</ErrorCode>
            <ResponseCode>string</ResponseCode>
            <ResponsePagePath>string</ResponsePagePath>
        </CustomErrorResponse>
    </Items>
    <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
    <AllowedMethods>
        <CachedMethods>
            <Items>
                <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
        </CachedMethods>
        <Items>
            <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
    </AllowedMethods>
    <CachePolicyId>string</CachePolicyId>
    <Compress>boolean</Compress>

```

```

<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>

```

```

    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>
<OriginGroups>
  <Items>
    <OriginGroup>
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        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
        </StatusCodes>
      </FailoverCriteria>
    </OriginGroup>
  </Items>
</OriginGroups>

```

```

        </Items>
        <Quantity>integer</Quantity>
    </StatusCodes>
</FailoverCriteria>
<Id>string</Id>
<Members>
    <Items>
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            <OriginId>string</OriginId>
        </OriginGroupMember>
    </Items>
    <Quantity>integer</Quantity>
</Members>
<SelectionCriteria>string</SelectionCriteria>
</OriginGroup>
</Items>
<Quantity>integer</Quantity>
</OriginGroups>
<Origins>
    <Items>
        <Origin>
            <ConnectionAttempts>integer</ConnectionAttempts>
            <ConnectionTimeout>integer</ConnectionTimeout>
            <CustomHeaders>
                <Items>
                    <OriginCustomHeader>
                        <HeaderName>string</HeaderName>
                        <HeaderValue>string</HeaderValue>
                    </OriginCustomHeader>
                </Items>
            <Quantity>integer</Quantity>
        </CustomHeaders>
        <CustomOriginConfig>
            <HTTPPort>integer</HTTPPort>
            <HTTPSPort>integer</HTTPSPort>
            <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
            <OriginProtocolPolicy>string</OriginProtocolPolicy>
            <OriginReadTimeout>integer</OriginReadTimeout>
            <OriginSslProtocols>
                <Items>
                    <SslProtocol>string</SslProtocol>
                </Items>
            <Quantity>integer</Quantity>
        </OriginSslProtocols>
    </Items>

```

```

    </CustomOriginConfig>
    <DomainName>string</DomainName>
    <Id>string</Id>
    <OriginAccessControlId>string</OriginAccessControlId>
    <OriginPath>string</OriginPath>
    <OriginShield>
      <Enabled>boolean</Enabled>
      <OriginShieldRegion>string</OriginShieldRegion>
    </OriginShield>
    <S3OriginConfig>
      <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3OriginConfig>
    <VpcOriginConfig>
      <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
      <OriginReadTimeout>integer</OriginReadTimeout>
      <VpcOriginId>string</VpcOriginId>
    </VpcOriginConfig>
  </Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>
<DomainName>string</DomainName>

```



```
<Id>string</Id>  
<InProgressInvalidationBatches>integer</InProgressInvalidationBatches>  
<LastModifiedTime>timestamp</LastModifiedTime>  
<Status>string</Status>  
</Distribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### Distribution

Root level tag for the Distribution parameters.

Required: Yes

### ActiveTrustedKeyGroups

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

### ActiveTrustedSigners

#### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

### AliasCPRecordals

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

### **ARN**

The distribution's Amazon Resource Name (ARN).

Type: String

### **DistributionConfig**

The distribution's configuration.

Type: [DistributionConfig](#) object

### **DomainName**

The distribution's CloudFront domain name. For example: `d111111abcdef8.cloudfront.net`.

Type: String

### **Id**

The distribution's identifier. For example: `E1U5RQF7T870K0`.

Type: String

### **InProgressInvalidationBatches**

The number of invalidation batches currently in progress.

Type: Integer

### **LastModifiedTime**

The date and time when the distribution was last modified.

Type: Timestamp

### **Status**

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

### **ContinuousDeploymentPolicyInUse**

You cannot delete a continuous deployment policy that is associated with a primary distribution.

HTTP Status Code: 409

### **DistributionAlreadyExists**

The caller reference you attempted to create the distribution with is associated with another distribution.

HTTP Status Code: 409

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **IllegalFieldLevelEncryptionConfigAssociationWithCacheBehavior**

The specified configuration for field-level encryption can't be associated with the specified cache behavior.

HTTP Status Code: 400

### **IllegalOriginAccessConfiguration**

An origin cannot contain both an origin access control (OAC) and an origin access identity (OAI).

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidDefaultRootObject**

The default root object file name is too big or contains an invalid character.

HTTP Status Code: 400

### **InvalidDomainNameForOriginAccessControl**

An origin access control is associated with an origin whose domain name is not supported.

HTTP Status Code: 400

### **InvalidErrorCode**

An invalid error code was specified.

HTTP Status Code: 400

### **InvalidForwardCookies**

Your request contains `forward cookies` option which doesn't match with the expectation for the `whitelisted` list of cookie names. Either list of cookie names has been specified when not allowed or list of cookie names is missing when expected.

HTTP Status Code: 400

### **InvalidFunctionAssociation**

A CloudFront function association is invalid.

HTTP Status Code: 400

### **InvalidGeoRestrictionParameter**

The specified geo restriction parameter is not valid.

HTTP Status Code: 400

### **InvalidHeadersForS3Origin**

The headers specified are not valid for an Amazon S3 origin.

HTTP Status Code: 400

### **InvalidLambdaFunctionAssociation**

The specified Lambda@Edge function association is invalid.

HTTP Status Code: 400

### **InvalidLocationCode**

The location code specified is not valid.

HTTP Status Code: 400

### **InvalidMinimumProtocolVersion**

The minimum protocol version specified is not valid.

HTTP Status Code: 400

### **InvalidOrigin**

The Amazon S3 origin server specified does not refer to a valid Amazon S3 bucket.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **InvalidOriginKeepaliveTimeout**

The keep alive timeout specified for the origin is not valid.

HTTP Status Code: 400

## **InvalidOriginReadTimeout**

The read timeout specified for the origin is not valid.

HTTP Status Code: 400

## **InvalidProtocolSettings**

You cannot specify SSLv3 as the minimum protocol version if you only want to support only clients that support Server Name Indication (SNI).

HTTP Status Code: 400

## **InvalidQueryStringParameters**

The query string parameters specified are not valid.

HTTP Status Code: 400

## **InvalidRelativePath**

The relative path is too big, is not URL-encoded, or does not begin with a slash (/).

HTTP Status Code: 400

## **InvalidRequiredProtocol**

This operation requires the HTTPS protocol. Ensure that you specify the HTTPS protocol in your request, or omit the `RequiredProtocols` element from your distribution configuration.

HTTP Status Code: 400

## **InvalidResponseCode**

A response code is not valid.

HTTP Status Code: 400

## **InvalidTagging**

The tagging specified is not valid.

HTTP Status Code: 400

## **InvalidTTLOrder**

The TTL order specified is not valid.

HTTP Status Code: 400

### **InvalidViewerCertificate**

A viewer certificate specified is not valid.

HTTP Status Code: 400

### **InvalidWebACLId**

A web ACL ID specified is not valid. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/473e64fd-f30b-4765-81a0-62ad96dd167a`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `473e64fd-f30b-4765-81a0-62ad96dd167a`.

HTTP Status Code: 400

### **MissingBody**

This operation requires a body. Ensure that the body is present and the Content-Type header is set.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

### **NoSuchContinuousDeploymentPolicy**

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

### **NoSuchFieldLevelEncryptionConfig**

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

### **NoSuchOrigin**

No origin exists with the specified Origin Id.

HTTP Status Code: 404

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

### **RealtimeLogConfigOwnerMismatch**

The specified real-time log configuration belongs to a different AWS account.

HTTP Status Code: 401

### **TooManyCacheBehaviors**

You cannot create more cache behaviors for the distribution.

HTTP Status Code: 400

### **TooManyCertificates**

You cannot create anymore custom SSL/TLS certificates.

HTTP Status Code: 400

### **TooManyCookieNamesInWhiteList**

Your request contains more cookie names in the whitelist than are allowed per cache behavior.

HTTP Status Code: 400

### **TooManyDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400



## **TooManyDistributions**

Processing your request would cause you to exceed the maximum number of distributions allowed.

HTTP Status Code: 400

## **TooManyDistributionsAssociatedToCachePolicy**

The maximum number of distributions have been associated with the specified cache policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **TooManyDistributionsAssociatedToFieldLevelEncryptionConfig**

The maximum number of distributions have been associated with the specified configuration for field-level encryption.

HTTP Status Code: 400

## **TooManyDistributionsAssociatedToKeyGroup**

The number of distributions that reference this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **TooManyDistributionsAssociatedToOriginAccessControl**

The maximum number of distributions have been associated with the specified origin access control.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **TooManyDistributionsAssociatedToOriginRequestPolicy**

The maximum number of distributions have been associated with the specified origin request policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToResponseHeadersPolicy**

The maximum number of distributions have been associated with the specified response headers policy.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithFunctionAssociations**

You have reached the maximum number of distributions that are associated with a CloudFront function. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithLambdaAssociations**

Processing your request would cause the maximum number of distributions with Lambda@Edge function associations per owner to be exceeded.

HTTP Status Code: 400

### **TooManyDistributionsWithSingleFunctionARN**

The maximum number of distributions have been associated with the specified Lambda@Edge function.

HTTP Status Code: 400

### **TooManyFunctionAssociations**

You have reached the maximum number of CloudFront function associations for this distribution. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyHeadersInForwardedValues**

Your request contains too many headers in forwarded values.

HTTP Status Code: 400

### **TooManyKeyGroupsAssociatedToDistribution**

The number of key groups referenced by this distribution is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyLambdaFunctionAssociations**

Your request contains more Lambda@Edge function associations than are allowed per distribution.

HTTP Status Code: 400

### **TooManyOriginCustomHeaders**

Your request contains too many origin custom headers.

HTTP Status Code: 400

### **TooManyOriginGroupsPerDistribution**

Processing your request would cause you to exceed the maximum number of origin groups allowed.

HTTP Status Code: 400

### **TooManyOrigins**

You cannot create more origins for the distribution.

HTTP Status Code: 400

### **TooManyQueryStringParameters**

Your request contains too many query string parameters.

HTTP Status Code: 400

### **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

## TrustedKeyGroupDoesNotExist

The specified key group does not exist.

HTTP Status Code: 400

## TrustedSignerDoesNotExist

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateFieldLevelEncryptionConfig

Service: Amazon CloudFront

Create a new field-level encryption configuration.

## Request Syntax

```
POST /2020-05-31/field-level-encryption HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <ContentTypeProfileConfig>
    <ContentTypeProfiles>
      <Items>
        <ContentTypeProfile>
          <ContentType>string</ContentType>
          <Format>string</Format>
          <ProfileId>string</ProfileId>
        </ContentTypeProfile>
      </Items>
      <Quantity>integer</Quantity>
    </ContentTypeProfiles>
    <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
  </ContentTypeProfileConfig>
  <QueryArgProfileConfig>
    <ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
    <QueryArgProfiles>
      <Items>
        <QueryArgProfile>
          <ProfileId>string</ProfileId>
          <QueryArg>string</QueryArg>
        </QueryArgProfile>
      </Items>
      <Quantity>integer</Quantity>
    </QueryArgProfiles>
  </QueryArgProfileConfig>
</FieldLevelEncryptionConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [FieldLevelEncryptionConfig](#)

Root level tag for the FieldLevelEncryptionConfig parameters.

Required: Yes

### [CallerReference](#)

A unique number that ensures the request can't be replayed.

Type: String

Required: Yes

### [Comment](#)

An optional comment about the configuration. The comment cannot be longer than 128 characters.

Type: String

Required: No

### [ContentTypeProfileConfig](#)

A complex data type that specifies when to forward content if a content type isn't recognized and profiles to use as by default in a request if a query argument doesn't specify a profile to use.

Type: [ContentTypeProfileConfig](#) object

Required: No

### [QueryArgProfileConfig](#)

A complex data type that specifies when to forward content if a profile isn't found and the profile that can be provided as a query argument in a request.

Type: [QueryArgProfileConfig](#) object

Required: No

## Response Syntax

```

HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryption>
  <FieldLevelEncryptionConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <ContentTypeProfileConfig>
      <ContentTypeProfiles>
        <Items>
          <ContentTypeProfile>
            <ContentType>string</ContentType>
            <Format>string</Format>
            <ProfileId>string</ProfileId>
          </ContentTypeProfile>
        </Items>
        <Quantity>integer</Quantity>
      </ContentTypeProfiles>
      <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
    </ContentTypeProfileConfig>
    <QueryArgProfileConfig>
      <ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
      <QueryArgProfiles>
        <Items>
          <QueryArgProfile>
            <ProfileId>string</ProfileId>
            <QueryArg>string</QueryArg>
          </QueryArgProfile>
        </Items>
        <Quantity>integer</Quantity>
      </QueryArgProfiles>
    </QueryArgProfileConfig>
  </FieldLevelEncryptionConfig>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
</FieldLevelEncryption>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### **FieldLevelEncryption**

Root level tag for the FieldLevelEncryption parameters.

Required: Yes

### **FieldLevelEncryptionConfig**

A complex data type that includes the profile configurations specified for field-level encryption.

Type: [FieldLevelEncryptionConfig](#) object

### **Id**

The configuration ID for a field-level encryption configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

### **LastModifiedTime**

The last time the field-level encryption configuration was changed.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **FieldLevelEncryptionConfigAlreadyExists**

The specified configuration for field-level encryption already exists.

HTTP Status Code: 409

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.



HTTP Status Code: 400

### **NoSuchFieldLevelEncryptionProfile**

The specified profile for field-level encryption doesn't exist.

HTTP Status Code: 404

### **QueryArgProfileEmpty**

No profile specified for the field-level encryption query argument.

HTTP Status Code: 400

### **TooManyFieldLevelEncryptionConfigs**

The maximum number of configurations for field-level encryption have been created.

HTTP Status Code: 400

### **TooManyFieldLevelEncryptionContentTypeProfiles**

The maximum number of content type profiles for field-level encryption have been created.

HTTP Status Code: 400

### **TooManyFieldLevelEncryptionQueryArgProfiles**

The maximum number of query arg profiles for field-level encryption have been created.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateFieldLevelEncryptionProfile

Service: Amazon CloudFront

Create a field-level encryption profile.

## Request Syntax

```
POST /2020-05-31/field-level-encryption-profile HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfileConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <EncryptionEntities>
    <Items>
      <EncryptionEntity>
        <FieldPatterns>
          <Items>
            <FieldPattern>string</FieldPattern>
          </Items>
          <Quantity>integer</Quantity>
        </FieldPatterns>
        <ProviderId>string</ProviderId>
        <PublicKeyId>string</PublicKeyId>
      </EncryptionEntity>
    </Items>
    <Quantity>integer</Quantity>
  </EncryptionEntities>
  <Name>string</Name>
</FieldLevelEncryptionProfileConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [FieldLevelEncryptionProfileConfig](#)

Root level tag for the FieldLevelEncryptionProfileConfig parameters.

Required: Yes

### CallerReference

A unique number that ensures that the request can't be replayed.

Type: String

Required: Yes

### Comment

An optional comment for the field-level encryption profile. The comment cannot be longer than 128 characters.

Type: String

Required: No

### EncryptionEntities

A complex data type of encryption entities for the field-level encryption profile that include the public key ID, provider, and field patterns for specifying which fields to encrypt with this key.

Type: [EncryptionEntities](#) object

Required: Yes

### Name

Profile name for the field-level encryption profile.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfile>
  <FieldLevelEncryptionProfileConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
```

```

<EncryptionEntities>
  <Items>
    <EncryptionEntity>
      <FieldPatterns>
        <Items>
          <FieldPattern>string</FieldPattern>
        </Items>
      <Quantity>integer</Quantity>
    </FieldPatterns>
    <ProviderId>string</ProviderId>
    <PublicKeyId>string</PublicKeyId>
  </EncryptionEntity>
</Items>
<Quantity>integer</Quantity>
</EncryptionEntities>
<Name>string</Name>
</FieldLevelEncryptionProfileConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</FieldLevelEncryptionProfile>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### FieldLevelEncryptionProfile

Root level tag for the FieldLevelEncryptionProfile parameters.

Required: Yes

### FieldLevelEncryptionProfileConfig

A complex data type that includes the profile name and the encryption entities for the field-level encryption profile.

Type: [FieldLevelEncryptionProfileConfig](#) object

### Id

The ID for a field-level encryption profile configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

### **LastModifiedTime**

The last time the field-level encryption profile was updated.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **FieldLevelEncryptionProfileAlreadyExists**

The specified profile for field-level encryption already exists.

HTTP Status Code: 409

### **FieldLevelEncryptionProfileSizeExceeded**

The maximum size of a profile for field-level encryption was exceeded.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchPublicKey**

The specified public key doesn't exist.

HTTP Status Code: 404

### **TooManyFieldLevelEncryptionEncryptionEntities**

The maximum number of encryption entities for field-level encryption have been created.

HTTP Status Code: 400

## TooManyFieldLevelEncryptionFieldPatterns

The maximum number of field patterns for field-level encryption have been created.

HTTP Status Code: 400

## TooManyFieldLevelEncryptionProfiles

The maximum number of profiles for field-level encryption have been created.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateFunction

Service: Amazon CloudFront

Creates a CloudFront function.

To create a function, you provide the function code and some configuration information about the function. The response contains an Amazon Resource Name (ARN) that uniquely identifies the function.

When you create a function, it's in the DEVELOPMENT stage. In this stage, you can test the function with `TestFunction`, and update it with `UpdateFunction`.

When you're ready to use your function with a CloudFront distribution, use `PublishFunction` to copy the function from the DEVELOPMENT stage to LIVE. When it's live, you can attach the function to a distribution's cache behavior, using the function's ARN.

## Request Syntax

```
POST /2020-05-31/function HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateFunctionRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <FunctionCode>blob</FunctionCode>
  <FunctionConfig>
    <Comment>string</Comment>
    <KeyValueStoreAssociations>
      <Items>
        <KeyValueStoreAssociation>
          <KeyValueStoreARN>string</KeyValueStoreARN>
        </KeyValueStoreAssociation>
      </Items>
      <Quantity>integer</Quantity>
    </KeyValueStoreAssociations>
    <Runtime>string</Runtime>
  </FunctionConfig>
  <Name>string</Name>
</CreateFunctionRequest>
```

## URI Request Parameters

The request does not use any URI parameters.



## Request Body

The request accepts the following data in XML format.

### CreateFunctionRequest

Root level tag for the CreateFunctionRequest parameters.

Required: Yes

### FunctionCode

The function code. For more information about writing a CloudFront function, see [Writing function code for CloudFront Functions](#) in the *Amazon CloudFront Developer Guide*.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 40960.

Required: Yes

### FunctionConfig

Configuration information about the function, including an optional comment and the function's runtime.

Type: [FunctionConfig](#) object

Required: Yes

### Name

A name to identify the function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

Required: Yes

## Response Syntax

```
HTTP/1.1 201
```

```

<?xml version="1.0" encoding="UTF-8"?>
<FunctionSummary>
  <FunctionConfig>
    <Comment>string</Comment>
    <KeyValueStoreAssociations>
      <Items>
        <KeyValueStoreAssociation>
          <KeyValueStoreARN>string</KeyValueStoreARN>
        </KeyValueStoreAssociation>
      </Items>
      <Quantity>integer</Quantity>
    </KeyValueStoreAssociations>
    <Runtime>string</Runtime>
  </FunctionConfig>
  <FunctionMetadata>
    <CreatedTime>timestamp</CreatedTime>
    <FunctionARN>string</FunctionARN>
    <LastModifiedTime>timestamp</LastModifiedTime>
    <Stage>string</Stage>
  </FunctionMetadata>
  <Name>string</Name>
  <Status>string</Status>
</FunctionSummary>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### FunctionSummary

Root level tag for the FunctionSummary parameters.

Required: Yes

### FunctionConfig

Contains configuration information about a CloudFront function.

Type: [FunctionConfig](#) object

### FunctionMetadata

Contains metadata about a CloudFront function.

Type: [FunctionMetadata](#) object

### Name

The name of the CloudFront function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

### Status

The status of the CloudFront function.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **FunctionAlreadyExists**

A function with the same name already exists in this AWS account. To create a function, you must provide a unique name. To update an existing function, use `UpdateFunction`.

HTTP Status Code: 409

### **FunctionSizeLimitExceeded**

The function is too large. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 413

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **TooManyFunctions**

You have reached the maximum number of CloudFront functions for this AWS account. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateInvalidation

Service: Amazon CloudFront

Create a new invalidation. For more information, see [Invalidating files](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/distribution/DistributionId/invalidation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<InvalidationBatch xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Paths>
    <Items>
      <Path>string</Path>
    </Items>
    <Quantity>integer</Quantity>
  </Paths>
</InvalidationBatch>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [InvalidationBatch](#)

Root level tag for the InvalidationBatch parameters.

Required: Yes

### [CallerReference](#)

A value that you specify to uniquely identify an invalidation request. CloudFront uses the value to prevent you from accidentally resubmitting an identical request. Whenever you create a new invalidation request, you must specify a new value for `CallerReference` and change other values in the request as applicable. One way to ensure that the value of `CallerReference` is unique is to use a timestamp, for example, `20120301090000`.

If you make a second invalidation request with the same value for `CallerReference`, and if the rest of the request is the same, CloudFront doesn't create a new invalidation request. Instead, CloudFront returns information about the invalidation request that you previously created with the same `CallerReference`.

If `CallerReference` is a value you already sent in a previous invalidation batch request but the content of any `Path` is different from the original request, CloudFront returns an `InvalidationBatchAlreadyExists` error.

Type: String

Required: Yes

## Paths

A complex type that contains information about the objects that you want to invalidate. For more information, see [Specifying the Objects to Invalidate](#) in the *Amazon CloudFront Developer Guide*.

Type: [Paths](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<Invalidation>
  <CreateTime>timestamp</CreateTime>
  <Id>string</Id>
  <InvalidationBatch>
    <CallerReference>string</CallerReference>
    <Paths>
      <Items>
        <Path>string</Path>
      </Items>
      <Quantity>integer</Quantity>
    </Paths>
  </InvalidationBatch>
  <Status>string</Status>
</Invalidation>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### Invalidation

Root level tag for the Invalidation parameters.

Required: Yes

### CreateTime

The date and time the invalidation request was first made.

Type: Timestamp

### Id

The identifier for the invalidation request. For example: IDFDVBD632BHDS5.

Type: String

### InvalidationBatch

The current invalidation information for the batch request.

Type: [InvalidationBatch](#) object

### Status

The status of the invalidation request. When the invalidation batch is finished, the status is Completed.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **BatchTooLarge**

Invalidation batch specified is too large.

HTTP Status Code: 413

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **MissingBody**

This operation requires a body. Ensure that the body is present and the `Content-Type` header is set.

HTTP Status Code: 400

### **NoSuchDistribution**

The specified distribution does not exist.

HTTP Status Code: 404

### **TooManyInvalidationsInProgress**

You have exceeded the maximum number of allowable `InProgress` invalidation batch requests, or invalidation objects.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)



- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateKeyGroup

Service: Amazon CloudFront

Creates a key group that you can use with [CloudFront signed URLs and signed cookies](#).

To create a key group, you must specify at least one public key for the key group. After you create a key group, you can reference it from one or more cache behaviors. When you reference a key group in a cache behavior, CloudFront requires signed URLs or signed cookies for all requests that match the cache behavior. The URLs or cookies must be signed with a private key whose corresponding public key is in the key group. The signed URL or cookie contains information about which public key CloudFront should use to verify the signature. For more information, see [Serving private content](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/key-group HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroupConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <Items>
    <PublicKey>string</PublicKey>
  </Items>
  <Name>string</Name>
</KeyGroupConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [KeyGroupConfig](#)

Root level tag for the KeyGroupConfig parameters.

Required: Yes

### [Comment](#)

A comment to describe the key group. The comment cannot be longer than 128 characters.

Type: String

Required: No

### Items

A list of the identifiers of the public keys in the key group.

Type: Array of strings

Required: Yes

### Name

A name to identify the key group.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroup>
  <Id>string</Id>
  <KeyGroupConfig>
    <Comment>string</Comment>
    <Items>
      <PublicKey>string</PublicKey>
    </Items>
    <Name>string</Name>
  </KeyGroupConfig>
  <LastModifiedTime>timestamp</LastModifiedTime>
</KeyGroup>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### KeyGroup

Root level tag for the KeyGroup parameters.

Required: Yes

### **Id**

The identifier for the key group.

Type: String

### **KeyGroupConfig**

The key group configuration.

Type: [KeyGroupConfig](#) object

### **LastModifiedTime**

The date and time when the key group was last modified.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **KeyGroupAlreadyExists**

A key group with this name already exists. You must provide a unique name. To modify an existing key group, use `UpdateKeyGroup`.

HTTP Status Code: 409

### **TooManyKeyGroups**

You have reached the maximum number of key groups for this AWS account. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyPublicKeysInKeyGroup

The number of public keys in this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateKeyValueStore

Service: Amazon CloudFront

Specifies the key value store resource to add to your account. In your account, the key value store names must be unique. You can also import key value store data in JSON format from an S3 bucket by providing a valid `ImportSource` that you own.

## Request Syntax

```
POST /2020-05-31/key-value-store HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateKeyValueStoreRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <ImportSource>
    <SourceARN>string</SourceARN>
    <SourceType>string</SourceType>
  </ImportSource>
  <Name>string</Name>
</CreateKeyValueStoreRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [CreateKeyValueStoreRequest](#)

Root level tag for the `CreateKeyValueStoreRequest` parameters.

Required: Yes

### [Comment](#)

The comment of the key value store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

### ImportSource

The S3 bucket that provides the source for the import. The source must be in a valid JSON format.

Type: [ImportSource](#) object

Required: No

### Name

The name of the key value store. The minimum length is 1 character and the maximum length is 64 characters.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<KeyValueStore>
  <ARN>string</ARN>
  <Comment>string</Comment>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Name>string</Name>
  <Status>string</Status>
</KeyValueStore>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

## KeyValueStore

Root level tag for the KeyValueStore parameters.

Required: Yes

### ARN

The Amazon Resource Name (ARN) of the key value store.

Type: String

### Comment

A comment for the key value store.

Type: String

### Id

The unique Id for the key value store.

Type: String

### LastModifiedTime

The last-modified time of the key value store.

Type: Timestamp

### Name

The name of the key value store.

Type: String

### Status

The status of the key value store.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).



## **AccessDenied**

Access denied.

HTTP Status Code: 403

## **EntityAlreadyExists**

The entity already exists. You must provide a unique entity.

HTTP Status Code: 409

## **EntityLimitExceeded**

The entity limit has been exceeded.

HTTP Status Code: 400

## **EntitySizeLimitExceeded**

The entity size limit was exceeded.

HTTP Status Code: 413

## **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateMonitoringSubscription

Service: Amazon CloudFront

Enables additional CloudWatch metrics for the specified CloudFront distribution. The additional metrics incur an additional cost.

For more information, see [Viewing additional CloudFront distribution metrics](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/distributions/DistributionId/monitoring-subscription HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<MonitoringSubscription xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <RealtimeMetricsSubscriptionConfig>
    <RealtimeMetricsSubscriptionStatus>string</RealtimeMetricsSubscriptionStatus>
  </RealtimeMetricsSubscriptionConfig>
</MonitoringSubscription>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [MonitoringSubscription](#)

Root level tag for the MonitoringSubscription parameters.

Required: Yes

### [RealtimeMetricsSubscriptionConfig](#)

A subscription configuration for additional CloudWatch metrics.

Type: [RealtimeMetricsSubscriptionConfig](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<MonitoringSubscription>
  <RealtimeMetricsSubscriptionConfig>
    <RealtimeMetricsSubscriptionStatus>string</RealtimeMetricsSubscriptionStatus>
  </RealtimeMetricsSubscriptionConfig>
</MonitoringSubscription>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [MonitoringSubscription](#)

Root level tag for the MonitoringSubscription parameters.

Required: Yes

### [RealtimeMetricsSubscriptionConfig](#)

A subscription configuration for additional CloudWatch metrics.

Type: [RealtimeMetricsSubscriptionConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **MonitoringSubscriptionAlreadyExists**

A monitoring subscription already exists for the specified distribution.

HTTP Status Code: 409

## NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateOriginAccessControl

Service: Amazon CloudFront

Creates a new origin access control in CloudFront. After you create an origin access control, you can add it to an origin in a CloudFront distribution so that CloudFront sends authenticated (signed) requests to the origin.

This makes it possible to block public access to the origin, allowing viewers (users) to access the origin's content only through CloudFront.

For more information about using a CloudFront origin access control, see [Restricting access to an AWS origin](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/origin-access-control HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControlConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Description>string</Description>
  <Name>string</Name>
  <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
  <SigningBehavior>string</SigningBehavior>
  <SigningProtocol>string</SigningProtocol>
</OriginAccessControlConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [OriginAccessControlConfig](#)

Root level tag for the OriginAccessControlConfig parameters.

Required: Yes

### [Description](#)

A description of the origin access control.

Type: String

Required: No

### Name

A name to identify the origin access control. You can specify up to 64 characters.

Type: String

Required: Yes

### OriginAccessControlOriginType

The type of origin that this origin access control is for.

Type: String

Valid Values: s3 | mediastore | mediapackagev2 | lambda

Required: Yes

### SigningBehavior

Specifies which requests CloudFront signs (adds authentication information to). Specify `always` for the most common use case. For more information, see [origin access control advanced settings](#) in the *Amazon CloudFront Developer Guide*.

This field can have one of the following values:

- `always` – CloudFront signs all origin requests, overwriting the `Authorization` header from the viewer request if one exists.
- `never` – CloudFront doesn't sign any origin requests. This value turns off origin access control for all origins in all distributions that use this origin access control.
- `no-override` – If the viewer request doesn't contain the `Authorization` header, then CloudFront signs the origin request. If the viewer request contains the `Authorization` header, then CloudFront doesn't sign the origin request and instead passes along the `Authorization` header from the viewer request. **WARNING: To pass along the `Authorization` header from the viewer request, you *must* add the `Authorization` header to a [cache policy](#) for all cache behaviors that use origins associated with this origin access control.**

Type: String

Valid Values: never | always | no-override

Required: Yes

### SigningProtocol

The signing protocol of the origin access control, which determines how CloudFront signs (authenticates) requests. The only valid value is sigv4.

Type: String

Valid Values: sigv4

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControl>
  <Id>string</Id>
  <OriginAccessControlConfig>
    <Description>string</Description>
    <Name>string</Name>
    <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
    <SigningBehavior>string</SigningBehavior>
    <SigningProtocol>string</SigningProtocol>
  </OriginAccessControlConfig>
</OriginAccessControl>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### OriginAccessControl

Root level tag for the OriginAccessControl parameters.

Required: Yes



## **Id**

The unique identifier of the origin access control.

Type: String

## **OriginAccessControlConfig**

The origin access control.

Type: [OriginAccessControlConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **OriginAccessControlAlreadyExists**

An origin access control with the specified parameters already exists.

HTTP Status Code: 409

### **TooManyOriginAccessControls**

The number of origin access controls in your AWS account exceeds the maximum allowed.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateOriginRequestPolicy

Service: Amazon CloudFront

Creates an origin request policy.

After you create an origin request policy, you can attach it to one or more cache behaviors. When it's attached to a cache behavior, the origin request policy determines the values that CloudFront includes in requests that it sends to the origin. Each request that CloudFront sends to the origin includes the following:

- The request body and the URL path (without the domain name) from the viewer request.
- The headers that CloudFront automatically includes in every origin request, including Host, User-Agent, and X-Amz-Cf-Id.
- All HTTP headers, cookies, and URL query strings that are specified in the cache policy or the origin request policy. These can include items from the viewer request and, in the case of headers, additional ones that are added by CloudFront.

CloudFront sends a request when it can't find a valid object in its cache that matches the request. If you want to send values to the origin and also include them in the cache key, use CachePolicy.

For more information about origin request policies, see [Controlling origin requests](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/origin-request-policy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <CookiesConfig>
    <CookieBehavior>string</CookieBehavior>
    <Cookies>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Cookies>
  </CookiesConfig>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
```

```
<Headers>
  <Items>
    <Name>string</Name>
  </Items>
  <Quantity>integer</Quantity>
</Headers>
</HeadersConfig>
<Name>string</Name>
<QueryStringsConfig>
  <QueryStringBehavior>string</QueryStringBehavior>
  <QueryStrings>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStrings>
</QueryStringsConfig>
</OriginRequestPolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### OriginRequestPolicyConfig

Root level tag for the OriginRequestPolicyConfig parameters.

Required: Yes

### Comment

A comment to describe the origin request policy. The comment cannot be longer than 128 characters.

Type: String

Required: No

### CookiesConfig

The cookies from viewer requests to include in origin requests.

Type: [OriginRequestPolicyCookiesConfig](#) object

Required: Yes

### [HeadersConfig](#)

The HTTP headers to include in origin requests. These can include headers from viewer requests and additional headers added by CloudFront.

Type: [OriginRequestPolicyHeadersConfig](#) object

Required: Yes

### [Name](#)

A unique name to identify the origin request policy.

Type: String

Required: Yes

### [QueryStringsConfig](#)

The URL query strings from viewer requests to include in origin requests.

Type: [OriginRequestPolicyQueryStringsConfig](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicy>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <OriginRequestPolicyConfig>
    <Comment>string</Comment>
    <CookiesConfig>
      <CookieBehavior>string</CookieBehavior>
      <Cookies>
        <Items>
          <Name>string</Name>
        </Items>
      <Quantity>integer</Quantity>
    </CookiesConfig>
  </OriginRequestPolicyConfig>
</OriginRequestPolicy>
```

```

    </Cookies>
  </CookiesConfig>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <Name>string</Name>
  <QueryStringsConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStrings>
  </QueryStringsConfig>
</OriginRequestPolicyConfig>
</OriginRequestPolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### OriginRequestPolicy

Root level tag for the OriginRequestPolicy parameters.

Required: Yes

#### Id

The unique identifier for the origin request policy.

Type: String

#### LastModifiedTime

The date and time when the origin request policy was last modified.

Type: Timestamp

## [OriginRequestPolicyConfig](#)

The origin request policy configuration.

Type: [OriginRequestPolicyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### InconsistentQuantities

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### OriginRequestPolicyAlreadyExists

An origin request policy with this name already exists. You must provide a unique name. To modify an existing origin request policy, use `UpdateOriginRequestPolicy`.

HTTP Status Code: 409

### TooManyCookiesInOriginRequestPolicy

The number of cookies in the origin request policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyHeadersInOriginRequestPolicy

The number of headers in the origin request policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyOriginRequestPolicies

You have reached the maximum number of origin request policies for this AWS account. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyQueryStringsInOriginRequestPolicy

The number of query strings in the origin request policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreatePublicKey

Service: Amazon CloudFront

Uploads a public key to CloudFront that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

## Request Syntax

```
POST /2020-05-31/public-key HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<PublicKeyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <EncodedKey>string</EncodedKey>
  <Name>string</Name>
</PublicKeyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### PublicKeyConfig

Root level tag for the PublicKeyConfig parameters.

Required: Yes

### CallerReference

A string included in the request to help make sure that the request can't be replayed.

Type: String

Required: Yes

### Comment

A comment to describe the public key. The comment cannot be longer than 128 characters.

Type: String

Required: No

### EncodedKey

The public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: String

Required: Yes

### Name

A name to help identify the public key.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<PublicKey>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <PublicKeyConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <EncodedKey>string</EncodedKey>
    <Name>string</Name>
  </PublicKeyConfig>
</PublicKey>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### PublicKey

Root level tag for the PublicKey parameters.

Required: Yes

### CreatedTime

The date and time when the public key was uploaded.

Type: Timestamp

### Id

The identifier of the public key.

Type: String

### PublicKeyConfig

Configuration information about a public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: [PublicKeyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **PublicKeyAlreadyExists**

The specified public key already exists.

HTTP Status Code: 409

### **TooManyPublicKeys**

The maximum number of public keys for field-level encryption have been created. To create a new public key, delete one of the existing keys.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateRealtimeLogConfig

Service: Amazon CloudFront

Creates a real-time log configuration.

After you create a real-time log configuration, you can attach it to one or more cache behaviors to send real-time log data to the specified Amazon Kinesis data stream.

For more information about real-time log configurations, see [Real-time logs](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/realtime-log-config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateRealtimeLogConfigRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <EndPoints>
    <EndPoint>
      <KinesisStreamConfig>
        <RoleARN>string</RoleARN>
        <StreamARN>string</StreamARN>
      </KinesisStreamConfig>
      <StreamType>string</StreamType>
    </EndPoint>
  </EndPoints>
  <Fields>
    <Field>string</Field>
  </Fields>
  <Name>string</Name>
  <SamplingRate>long</SamplingRate>
</CreateRealtimeLogConfigRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

## CreateRealtimeLogConfigRequest

Root level tag for the CreateRealtimeLogConfigRequest parameters.

Required: Yes

### EndPoints

Contains information about the Amazon Kinesis data stream where you are sending real-time log data.

Type: Array of [EndPoint](#) objects

Required: Yes

### Fields

A list of fields to include in each real-time log record.

For more information about fields, see [Real-time log configuration fields](#) in the *Amazon CloudFront Developer Guide*.

Type: Array of strings

Required: Yes

### Name

A unique name to identify this real-time log configuration.

Type: String

Required: Yes

### SamplingRate

The sampling rate for this real-time log configuration. You can specify a whole number between 1 and 100 (inclusive) to determine the percentage of viewer requests that are represented in the real-time log data.

Type: Long

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<CreateRealtimeLogConfigResult>
  <RealtimeLogConfig>
    <ARN>string</ARN>
    <Endpoints>
      <EndPoint>
        <KinesisStreamConfig>
          <RoleARN>string</RoleARN>
          <StreamARN>string</StreamARN>
        </KinesisStreamConfig>
        <StreamType>string</StreamType>
      </EndPoint>
    </Endpoints>
    <Fields>
      <Field>string</Field>
    </Fields>
    <Name>string</Name>
    <SamplingRate>long</SamplingRate>
  </RealtimeLogConfig>
</CreateRealtimeLogConfigResult>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### CreateRealtimeLogConfigResult

Root level tag for the CreateRealtimeLogConfigResult parameters.

Required: Yes

### RealtimeLogConfig

A real-time log configuration.

Type: [RealtimeLogConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### RealtimeLogConfigAlreadyExists

A real-time log configuration with this name already exists. You must provide a unique name. To modify an existing real-time log configuration, use `UpdateRealtimeLogConfig`.

HTTP Status Code: 409

### TooManyRealtimeLogConfigs

You have reached the maximum number of real-time log configurations for this AWS account. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)



- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateResponseHeadersPolicy

Service: Amazon CloudFront

Creates a response headers policy.

A response headers policy contains information about a set of HTTP headers. To create a response headers policy, you provide some metadata about the policy and a set of configurations that specify the headers.

After you create a response headers policy, you can use its ID to attach it to one or more cache behaviors in a CloudFront distribution. When it's attached to a cache behavior, the response headers policy affects the HTTP headers that CloudFront includes in HTTP responses to requests that match the cache behavior. CloudFront adds or removes response headers according to the configuration of the response headers policy.

For more information, see [Adding or removing HTTP headers in CloudFront responses](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/response-headers-policy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <CorsConfig>
    <AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
    <AccessControlAllowHeaders>
      <Items>
        <Header>string</Header>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowHeaders>
    <AccessControlAllowMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowMethods>
    <AccessControlAllowOrigins>
      <Items>
        <Origin>string</Origin>
      </Items>
  </ResponseHeadersPolicyConfig>
```

```

    <Quantity>integer</Quantity>
  </AccessControlAllowOrigins>
  <AccessControlExposeHeaders>
    <Items>
      <Header>string</Header>
    </Items>
    <Quantity>integer</Quantity>
  </AccessControlExposeHeaders>
  <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
  <OriginOverride>boolean</OriginOverride>
</CorsConfig>
<CustomHeadersConfig>
  <Items>
    <ResponseHeadersPolicyCustomHeader>
      <Header>string</Header>
      <Override>boolean</Override>
      <Value>string</Value>
    </ResponseHeadersPolicyCustomHeader>
  </Items>
  <Quantity>integer</Quantity>
</CustomHeadersConfig>
<Name>string</Name>
<RemoveHeadersConfig>
  <Items>
    <ResponseHeadersPolicyRemoveHeader>
      <Header>string</Header>
    </ResponseHeadersPolicyRemoveHeader>
  </Items>
  <Quantity>integer</Quantity>
</RemoveHeadersConfig>
<SecurityHeadersConfig>
  <ContentSecurityPolicy>
    <ContentSecurityPolicy>string</ContentSecurityPolicy>
    <Override>boolean</Override>
  </ContentSecurityPolicy>
  <ContentTypeOptions>
    <Override>boolean</Override>
  </ContentTypeOptions>
  <FrameOptions>
    <FrameOption>string</FrameOption>
    <Override>boolean</Override>
  </FrameOptions>
  <ReferrerPolicy>
    <Override>boolean</Override>

```

```
<ReferrerPolicy>string</ReferrerPolicy>
</ReferrerPolicy>
<StrictTransportSecurity>
  <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
  <IncludeSubdomains>boolean</IncludeSubdomains>
  <Override>boolean</Override>
  <Preload>boolean</Preload>
</StrictTransportSecurity>
<XSSProtection>
  <ModeBlock>boolean</ModeBlock>
  <Override>boolean</Override>
  <Protection>boolean</Protection>
  <ReportUri>string</ReportUri>
</XSSProtection>
</SecurityHeadersConfig>
<ServerTimingHeadersConfig>
  <Enabled>boolean</Enabled>
  <SamplingRate>double</SamplingRate>
</ServerTimingHeadersConfig>
</ResponseHeadersPolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### ResponseHeadersPolicyConfig

Root level tag for the ResponseHeadersPolicyConfig parameters.

Required: Yes

### Comment

A comment to describe the response headers policy.

The comment cannot be longer than 128 characters.

Type: String

Required: No

## **CorsConfig**

A configuration for a set of HTTP response headers that are used for cross-origin resource sharing (CORS).

Type: [ResponseHeadersPolicyCorsConfig](#) object

Required: No

## **CustomHeadersConfig**

A configuration for a set of custom HTTP response headers.

Type: [ResponseHeadersPolicyCustomHeadersConfig](#) object

Required: No

## **Name**

A name to identify the response headers policy.

The name must be unique for response headers policies in this AWS account.

Type: String

Required: Yes

## **RemoveHeadersConfig**

A configuration for a set of HTTP headers to remove from the HTTP response.

Type: [ResponseHeadersPolicyRemoveHeadersConfig](#) object

Required: No

## **SecurityHeadersConfig**

A configuration for a set of security-related HTTP response headers.

Type: [ResponseHeadersPolicySecurityHeadersConfig](#) object

Required: No

## **ServerTimingHeadersConfig**

A configuration for enabling the `Server-Timing` header in HTTP responses sent from CloudFront.

Type: [ResponseHeadersPolicyServerTimingHeadersConfig](#) object

Required: No

## Response Syntax

```

HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicy>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <ResponseHeadersPolicyConfig>
    <Comment>string</Comment>
    <CorsConfig>
      <AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
      <AccessControlAllowHeaders>
        <Items>
          <Header>string</Header>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlAllowHeaders>
      <AccessControlAllowMethods>
        <Items>
          <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlAllowMethods>
      <AccessControlAllowOrigins>
        <Items>
          <Origin>string</Origin>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlAllowOrigins>
      <AccessControlExposeHeaders>
        <Items>
          <Header>string</Header>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlExposeHeaders>
      <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
      <OriginOverride>boolean</OriginOverride>
    </CorsConfig>
    <CustomHeadersConfig>
      <Items>
        <ResponseHeadersPolicyCustomHeader>

```

```

        <Header>string</Header>
        <Override>boolean</Override>
        <Value>string</Value>
    </ResponseHeadersPolicyCustomHeader>
</Items>
<Quantity>integer</Quantity>
</CustomHeadersConfig>
<Name>string</Name>
<RemoveHeadersConfig>
    <Items>
        <ResponseHeadersPolicyRemoveHeader>
            <Header>string</Header>
        </ResponseHeadersPolicyRemoveHeader>
    </Items>
    <Quantity>integer</Quantity>
</RemoveHeadersConfig>
<SecurityHeadersConfig>
    <ContentSecurityPolicy>
        <ContentSecurityPolicy>string</ContentSecurityPolicy>
        <Override>boolean</Override>
    </ContentSecurityPolicy>
    <ContentTypeOptions>
        <Override>boolean</Override>
    </ContentTypeOptions>
    <FrameOptions>
        <FrameOption>string</FrameOption>
        <Override>boolean</Override>
    </FrameOptions>
    <ReferrerPolicy>
        <Override>boolean</Override>
        <ReferrerPolicy>string</ReferrerPolicy>
    </ReferrerPolicy>
    <StrictTransportSecurity>
        <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
        <IncludeSubdomains>boolean</IncludeSubdomains>
        <Override>boolean</Override>
        <Preload>boolean</Preload>
    </StrictTransportSecurity>
    <XSSProtection>
        <ModeBlock>boolean</ModeBlock>
        <Override>boolean</Override>
        <Protection>boolean</Protection>
        <ReportUri>string</ReportUri>
    </XSSProtection>

```

```
</SecurityHeadersConfig>  
<ServerTimingHeadersConfig>  
  <Enabled>boolean</Enabled>  
  <SamplingRate>double</SamplingRate>  
</ServerTimingHeadersConfig>  
</ResponseHeadersPolicyConfig>  
</ResponseHeadersPolicy>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### [ResponseHeadersPolicy](#)

Root level tag for the ResponseHeadersPolicy parameters.

Required: Yes

#### [Id](#)

The identifier for the response headers policy.

Type: String

#### [LastModifiedTime](#)

The date and time when the response headers policy was last modified.

Type: Timestamp

### [ResponseHeadersPolicyConfig](#)

A response headers policy configuration.

Type: [ResponseHeadersPolicyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.



HTTP Status Code: 403

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **ResponseHeadersPolicyAlreadyExists**

A response headers policy with this name already exists. You must provide a unique name. To modify an existing response headers policy, use `UpdateResponseHeadersPolicy`.

HTTP Status Code: 409

### **TooLongCSPIInResponseHeadersPolicy**

The length of the `Content-Security-Policy` header value in the response headers policy exceeds the maximum.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyCustomHeadersInResponseHeadersPolicy**

The number of custom headers in the response headers policy exceeds the maximum.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyRemoveHeadersInResponseHeadersPolicy**

The number of headers in `RemoveHeadersConfig` in the response headers policy exceeds the maximum.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyResponseHeadersPolicies**

You have reached the maximum number of response headers policies for this AWS account.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateStreamingDistribution

Service: Amazon CloudFront

This API is deprecated. Amazon CloudFront is deprecating real-time messaging protocol (RTMP) distributions on December 31, 2020. For more information, [read the announcement](#) on the Amazon CloudFront discussion forum.

## Request Syntax

```
POST /2020-05-31/streaming-distribution HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistributionConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <Enabled>boolean</Enabled>
  <Logging>
    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <Prefix>string</Prefix>
  </Logging>
  <PriceClass>string</PriceClass>
  <S3Origin>
    <DomainName>string</DomainName>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3Origin>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
</StreamingDistributionConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### StreamingDistributionConfig

Root level tag for the StreamingDistributionConfig parameters.

Required: Yes

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this streaming distribution.

Type: [Aliases](#) object

Required: No

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of CallerReference is new (regardless of the content of the StreamingDistributionConfig object), CloudFront creates a new distribution.

If CallerReference is a value that you already sent in a previous request to create a distribution, CloudFront returns a DistributionAlreadyExists error.

Type: String

Required: Yes

### Comment

Any comments you want to include about the streaming distribution.

Type: String

Required: Yes

### Enabled

Whether the streaming distribution is enabled to accept user requests for content.

Type: Boolean

Required: Yes

### Logging

A complex type that controls whether access logs are written for the streaming distribution.

Type: [StreamingLoggingConfig](#) object

Required: No

### PriceClass

A complex type that contains information about price class for this streaming distribution.

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

Required: No

### S3Origin

A complex type that contains information about the Amazon S3 bucket from which you want CloudFront to get your media files for distribution.

Type: [S3Origin](#) object

Required: Yes

### TrustedSigners

A complex type that specifies any AWS accounts that you want to permit to create signed URLs for private content. If you want the distribution to use signed URLs, include this element; if you want the distribution to use public URLs, remove this element. For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistribution>
  <ActiveTrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <Signer>
        <AwsAccountNumber>string</AwsAccountNumber>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
        <Quantity>integer</Quantity>
      </KeyPairIds>
    </Signer>
  </Items>
  <Quantity>integer</Quantity>
</ActiveTrustedSigners>
<ARN>string</ARN>
<DomainName>string</DomainName>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>
<StreamingDistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
  <Quantity>integer</Quantity>
</Aliases>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<Enabled>boolean</Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <Prefix>string</Prefix>
</Logging>
<PriceClass>string</PriceClass>
```

```
<S3Origin>
  <DomainName>string</DomainName>
  <OriginAccessIdentity>string</OriginAccessIdentity>
</S3Origin>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
</StreamingDistributionConfig>
</StreamingDistribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### StreamingDistribution

Root level tag for the StreamingDistribution parameters.

Required: Yes

### ActiveTrustedSigners

A complex type that lists the AWS accounts, if any, that you included in the TrustedSigners complex type for this distribution. These are the accounts that you want to allow to create signed URLs for private content.

The Signer complex type lists the AWS account number of the trusted signer or self if the signer is the AWS account that created the distribution. The Signer element also includes the IDs of any active CloudFront key pairs that are associated with the trusted signer's AWS account. If no KeyPairId element appears for a Signer, that signer can't create signed URLs.

For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [ActiveTrustedSigners](#) object

## ARN

The ARN (Amazon Resource Name) for the distribution. For example: `arn:aws:cloudfront::123456789012:distribution/EDFDVBD632BHDS5`, where 123456789012 is your AWS account ID.

Type: String

## DomainName

The domain name that corresponds to the streaming distribution, for example, `s5c39gqb8ow64r.cloudfront.net`.

Type: String

## Id

The identifier for the RTMP distribution. For example: `EGTXBD79EXAMPLE`.

Type: String

## LastModifiedTime

The date and time that the distribution was last modified.

Type: Timestamp

## Status

The current status of the RTMP distribution. When the status is `Deployed`, the distribution's information is propagated to all CloudFront edge locations.

Type: String

## StreamingDistributionConfig

The current configuration information for the RTMP distribution.

Type: [StreamingDistributionConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



**AccessDenied**

Access denied.

HTTP Status Code: 403

**CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

**InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

**InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

**InvalidOrigin**

The Amazon S3 origin server specified does not refer to a valid Amazon S3 bucket.

HTTP Status Code: 400

**InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

**InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

**MissingBody**

This operation requires a body. Ensure that the body is present and the `Content-Type` header is set.

HTTP Status Code: 400

## **StreamingDistributionAlreadyExists**

The caller reference you attempted to create the streaming distribution with is associated with another distribution

HTTP Status Code: 409

## **TooManyStreamingDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

## **TooManyStreamingDistributions**

Processing your request would cause you to exceed the maximum number of streaming distributions allowed.

HTTP Status Code: 400

## **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

## **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateStreamingDistributionWithTags

Service: Amazon CloudFront

This API is deprecated. Amazon CloudFront is deprecating real-time messaging protocol (RTMP) distributions on December 31, 2020. For more information, [read the announcement](#) on the Amazon CloudFront discussion forum.

## Request Syntax

```
POST /2020-05-31/streaming-distribution?WithTags HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistributionConfigWithTags xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <StreamingDistributionConfig>
    <Aliases>
      <Items>
        <CNAME>string</CNAME>
      </Items>
      <Quantity>integer</Quantity>
    </Aliases>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <Enabled>boolean</Enabled>
    <Logging>
      <Bucket>string</Bucket>
      <Enabled>boolean</Enabled>
      <Prefix>string</Prefix>
    </Logging>
    <PriceClass>string</PriceClass>
    <S3Origin>
      <DomainName>string</DomainName>
      <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3Origin>
    <TrustedSigners>
      <Enabled>boolean</Enabled>
      <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
      </Items>
      <Quantity>integer</Quantity>
    </TrustedSigners>
  </StreamingDistributionConfig>
  <Tags>
    <Items>
```

```
<Tag>
  <Key>string</Key>
  <Value>string</Value>
</Tag>
</Items>
</Tags>
</StreamingDistributionConfigWithTags>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### StreamingDistributionConfigWithTags

Root level tag for the StreamingDistributionConfigWithTags parameters.

Required: Yes

### StreamingDistributionConfig

A streaming distribution Configuration.

Type: [StreamingDistributionConfig](#) object

Required: Yes

### Tags

A complex type that contains zero or more Tag elements.

Type: [Tags](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 201
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistribution>
  <ActiveTrustedSigners>
    <Enabled>boolean</Enabled>
```

```

<Items>
  <Signer>
    <AwsAccountNumber>string</AwsAccountNumber>
    <KeyPairIds>
      <Items>
        <KeyPairId>string</KeyPairId>
      </Items>
    <Quantity>integer</Quantity>
  </KeyPairIds>
</Signer>
</Items>
<Quantity>integer</Quantity>
</ActiveTrustedSigners>
<ARN>string</ARN>
<DomainName>string</DomainName>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>
<StreamingDistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <Enabled>boolean</Enabled>
  <Logging>
    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <Prefix>string</Prefix>
  </Logging>
  <PriceClass>string</PriceClass>
  <S3Origin>
    <DomainName>string</DomainName>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3Origin>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>

```

```
</TrustedSigners>  
</StreamingDistributionConfig>  
</StreamingDistribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in XML format by the service.

### StreamingDistribution

Root level tag for the StreamingDistribution parameters.

Required: Yes

### ActiveTrustedSigners

A complex type that lists the AWS accounts, if any, that you included in the `TrustedSigners` complex type for this distribution. These are the accounts that you want to allow to create signed URLs for private content.

The `Signer` complex type lists the AWS account number of the trusted signer or `self` if the signer is the AWS account that created the distribution. The `Signer` element also includes the IDs of any active CloudFront key pairs that are associated with the trusted signer's AWS account. If no `KeyPairId` element appears for a `Signer`, that signer can't create signed URLs.

For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [ActiveTrustedSigners](#) object

### ARN

The ARN (Amazon Resource Name) for the distribution. For example:  
`arn:aws:cloudfront::123456789012:distribution/EDFDVBD632BHDS5`, where  
123456789012 is your AWS account ID.

Type: String

### DomainName

The domain name that corresponds to the streaming distribution, for example,  
`s5c39gqb8ow64r.cloudfront.net`.

Type: String

### Id

The identifier for the RTMP distribution. For example: EGTXBD79EXAMPLE.

Type: String

### LastModifiedTime

The date and time that the distribution was last modified.

Type: Timestamp

### Status

The current status of the RTMP distribution. When the status is `Deployed`, the distribution's information is propagated to all CloudFront edge locations.

Type: String

### StreamingDistributionConfig

The current configuration information for the RTMP distribution.

Type: [StreamingDistributionConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.



HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidOrigin**

The Amazon S3 origin server specified does not refer to a valid Amazon S3 bucket.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **InvalidTagging**

The tagging specified is not valid.

HTTP Status Code: 400

### **MissingBody**

This operation requires a body. Ensure that the body is present and the Content-Type header is set.

HTTP Status Code: 400

### **StreamingDistributionAlreadyExists**

The caller reference you attempted to create the streaming distribution with is associated with another distribution

HTTP Status Code: 409

### **TooManyStreamingDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

### **TooManyStreamingDistributions**

Processing your request would cause you to exceed the maximum number of streaming distributions allowed.

HTTP Status Code: 400

### **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

### **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateVpcOrigin

Service: Amazon CloudFront

Create an Amazon CloudFront VPC origin.

## Request Syntax

```
POST /2020-05-31/vpc-origin HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateVpcOriginRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Tags>
    <Items>
      <Tag>
        <Key>string</Key>
        <Value>string</Value>
      </Tag>
    </Items>
  </Tags>
  <VpcOriginEndpointConfig>
    <Arn>string</Arn>
    <HTTPPort>integer</HTTPPort>
    <HTTPSPort>integer</HTTPSPort>
    <Name>string</Name>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </VpcOriginEndpointConfig>
</CreateVpcOriginRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

## CreateVpcOriginRequest

Root level tag for the CreateVpcOriginRequest parameters.

Required: Yes

### Tags

A complex type that contains zero or more Tag elements.

Type: [Tags](#) object

Required: No

## VpcOriginEndpointConfig

The VPC origin endpoint configuration.

Type: [VpcOriginEndpointConfig](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 202
<?xml version="1.0" encoding="UTF-8"?>
<VpcOrigin>
  <Arn>string</Arn>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Status>string</Status>
  <VpcOriginEndpointConfig>
    <Arn>string</Arn>
    <HTTPPort>integer</HTTPPort>
    <HTTPSPort>integer</HTTPSPort>
    <Name>string</Name>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </VpcOriginEndpointConfig>
</VpcOrigin>
```

```
</VpcOriginEndpointConfig>  
</VpcOrigin>
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

The following data is returned in XML format by the service.

### VpcOrigin

Root level tag for the VpcOrigin parameters.

Required: Yes

#### Arn

The VPC origin ARN.

Type: String

#### CreatedTime

The VPC origin created time.

Type: Timestamp

#### Id

The VPC origin ID.

Type: String

#### LastModifiedTime

The VPC origin last modified time.

Type: Timestamp

#### Status

The VPC origin status.

Type: String

### VpcOriginEndpointConfig

The VPC origin endpoint configuration.

Type: [VpcOriginEndpointConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### EntityAlreadyExists

The entity already exists. You must provide a unique entity.

HTTP Status Code: 409

### EntityLimitExceeded

The entity limit has been exceeded.

HTTP Status Code: 400

### InconsistentQuantities

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### InvalidTagging

The tagging specified is not valid.

HTTP Status Code: 400

### UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAnycastIpList

Service: Amazon CloudFront

Deletes an Anycast static IP list.

## Request Syntax

```
DELETE /2020-05-31/anycast-ip-list/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The ID of the Anycast static IP list.

Required: Yes

### If-Match

The current version (ETag value) of the Anycast static IP list that you are deleting.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



**AccessDenied**

Access denied.

HTTP Status Code: 403

**CannotDeleteEntityWhileInUse**

The entity cannot be deleted while it is in use.

HTTP Status Code: 409

**EntityNotFound**

The entity was not found.

HTTP Status Code: 404

**IllegalDelete**

Deletion is not allowed for this entity.

HTTP Status Code: 400

**InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

**InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

**PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

**UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteCachePolicy

Service: Amazon CloudFront

Deletes a cache policy.

You cannot delete a cache policy if it's attached to a cache behavior. First update your distributions to remove the cache policy from all cache behaviors, then delete the cache policy.

To delete a cache policy, you must provide the policy's identifier and version. To get these values, you can use `ListCachePolicies` or `GetCachePolicy`.

## Request Syntax

```
DELETE /2020-05-31/cache-policy/Id HTTP/1.1
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier for the cache policy that you are deleting. To get the identifier, you can use `ListCachePolicies`.

Required: Yes

### If-Match

The version of the cache policy that you are deleting. The version is the cache policy's ETag value, which you can get using `ListCachePolicies`, `GetCachePolicy`, or `GetCachePolicyConfig`.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### CachePolicyInUse

Cannot delete the cache policy because it is attached to one or more cache behaviors.

HTTP Status Code: 409

### IllegalDelete

Deletion is not allowed for this entity.

HTTP Status Code: 400

### InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

### NoSuchCachePolicy

The cache policy does not exist.

HTTP Status Code: 404

### PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteCloudFrontOriginAccessIdentity

Service: Amazon CloudFront

Delete an origin access identity.

## Request Syntax

```
DELETE /2020-05-31/origin-access-identity/cloudfront/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The origin access identity's ID.

Required: Yes

### If-Match

The value of the ETag header you received from a previous GET or PUT request. For example: E2QWRUHAPOMQZL.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## CloudFrontOriginAccessIdentityInUse

The Origin Access Identity specified is already in use.

HTTP Status Code: 409

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## NoSuchCloudFrontOriginAccessIdentity

The specified origin access identity does not exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteContinuousDeploymentPolicy

Service: Amazon CloudFront

Deletes a continuous deployment policy.

You cannot delete a continuous deployment policy that's attached to a primary distribution. First update your distribution to remove the continuous deployment policy, then you can delete the policy.

## Request Syntax

```
DELETE /2020-05-31/continuous-deployment-policy/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the continuous deployment policy that you are deleting.

Required: Yes

### If-Match

The current version (ETag value) of the continuous deployment policy that you are deleting.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **ContinuousDeploymentPolicyInUse**

You cannot delete a continuous deployment policy that is associated with a primary distribution.

HTTP Status Code: 409

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchContinuousDeploymentPolicy**

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteDistribution

Service: Amazon CloudFront

Delete a distribution.

## Request Syntax

```
DELETE /2020-05-31/distribution/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The distribution ID.

Required: Yes

### If-Match

The value of the ETag header that you received when you disabled the distribution. For example: E2QWRUHAPOMQZL.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## DistributionNotDisabled

The specified CloudFront distribution is not disabled. You must disable the distribution before you can delete it.

HTTP Status Code: 409

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteFieldLevelEncryptionConfig

Service: Amazon CloudFront

Remove a field-level encryption configuration.

## Request Syntax

```
DELETE /2020-05-31/field-level-encryption/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The ID of the configuration you want to delete from CloudFront.

Required: Yes

### If-Match

The value of the ETag header that you received when retrieving the configuration identity to delete. For example: E2QWRUHAPOMQZL.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## FieldLevelEncryptionConfigInUse

The specified configuration for field-level encryption is in use.

HTTP Status Code: 409

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## NoSuchFieldLevelEncryptionConfig

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)



- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteFieldLevelEncryptionProfile

Service: Amazon CloudFront

Remove a field-level encryption profile.

## Request Syntax

```
DELETE /2020-05-31/field-level-encryption-profile/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

Request the ID of the profile you want to delete from CloudFront.

Required: Yes

### If-Match

The value of the ETag header that you received when retrieving the profile to delete. For example: E2QWRUHAPOMQZL.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## FieldLevelEncryptionProfileInUse

The specified profile for field-level encryption is in use.

HTTP Status Code: 409

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## NoSuchFieldLevelEncryptionProfile

The specified profile for field-level encryption doesn't exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteFunction

Service: Amazon CloudFront

Deletes a CloudFront function.

You cannot delete a function if it's associated with a cache behavior. First, update your distributions to remove the function association from all cache behaviors, then delete the function.

To delete a function, you must provide the function's name and version (ETag value). To get these values, you can use `ListFunctions` and `DescribeFunction`.

## Request Syntax

```
DELETE /2020-05-31/function/Name HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### If-Match

The current version (ETag value) of the function that you are deleting, which you can get using `DescribeFunction`.

Required: Yes

### Name

The name of the function that you are deleting.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### FunctionInUse

Cannot delete the function because it's attached to one or more cache behaviors.

HTTP Status Code: 409

### InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

### NoSuchFunctionExists

The function does not exist.

HTTP Status Code: 404

### PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteKeyGroup

Service: Amazon CloudFront

Deletes a key group.

You cannot delete a key group that is referenced in a cache behavior. First update your distributions to remove the key group from all cache behaviors, then delete the key group.

To delete a key group, you must provide the key group's identifier and version. To get these values, use `ListKeyGroups` followed by `GetKeyGroup` or `GetKeyGroupConfig`.

## Request Syntax

```
DELETE /2020-05-31/key-group/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the key group that you are deleting. To get the identifier, use `ListKeyGroups`.

Required: Yes

### If-Match

The version of the key group that you are deleting. The version is the key group's ETag value. To get the ETag, use `GetKeyGroup` or `GetKeyGroupConfig`.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.



## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

### NoSuchResource

A resource that was specified is not valid.

HTTP Status Code: 404

### PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### ResourceInUse

Cannot delete this resource because it is in use.

HTTP Status Code: 409

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# DeleteKeyValueStore

Service: Amazon CloudFront

Specifies the key value store to delete.

## Request Syntax

```
DELETE /2020-05-31/key-value-store/Name HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### If-Match

The key value store to delete, if a match occurs.

Required: Yes

### Name

The name of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CannotDeleteEntityWhileInUse**

The entity cannot be deleted while it is in use.

HTTP Status Code: 409

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteMonitoringSubscription

Service: Amazon CloudFront

Disables additional CloudWatch metrics for the specified CloudFront distribution.

## Request Syntax

```
DELETE /2020-05-31/distributions/DistributionId/monitoring-subscription HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DistributionId

The ID of the distribution that you are disabling metrics for.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

## NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## NoSuchMonitoringSubscription

A monitoring subscription does not exist for the specified distribution.

HTTP Status Code: 404

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteOriginAccessControl

Service: Amazon CloudFront

Deletes a CloudFront origin access control.

You cannot delete an origin access control if it's in use. First, update all distributions to remove the origin access control from all origins, then delete the origin access control.

## Request Syntax

```
DELETE /2020-05-31/origin-access-control/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier of the origin access control that you are deleting.

Required: Yes

### If-Match

The current version (ETag value) of the origin access control that you are deleting.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



## AccessDenied

Access denied.

HTTP Status Code: 403

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## NoSuchOriginAccessControl

The origin access control does not exist.

HTTP Status Code: 404

## OriginAccessControlInUse

Cannot delete the origin access control because it's in use by one or more distributions.

HTTP Status Code: 409

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteOriginRequestPolicy

Service: Amazon CloudFront

Deletes an origin request policy.

You cannot delete an origin request policy if it's attached to any cache behaviors. First update your distributions to remove the origin request policy from all cache behaviors, then delete the origin request policy.

To delete an origin request policy, you must provide the policy's identifier and version. To get the identifier, you can use `ListOriginRequestPolicies` or `GetOriginRequestPolicy`.

## Request Syntax

```
DELETE /2020-05-31/origin-request-policy/Id HTTP/1.1
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier for the origin request policy that you are deleting. To get the identifier, you can use `ListOriginRequestPolicies`.

Required: Yes

### If-Match

The version of the origin request policy that you are deleting. The version is the origin request policy's ETag value, which you can get using `ListOriginRequestPolicies`, `GetOriginRequestPolicy`, or `GetOriginRequestPolicyConfig`.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### IllegalDelete

Deletion is not allowed for this entity.

HTTP Status Code: 400

### InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

### NoSuchOriginRequestPolicy

The origin request policy does not exist.

HTTP Status Code: 404

### OriginRequestPolicyInUse

Cannot delete the origin request policy because it is attached to one or more cache behaviors.

HTTP Status Code: 409

### PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeletePublicKey

Service: Amazon CloudFront

Remove a public key you previously added to CloudFront.

## Request Syntax

```
DELETE /2020-05-31/public-key/Id HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The ID of the public key you want to remove from CloudFront.

Required: Yes

### If-Match

The value of the ETag header that you received when retrieving the public key identity to delete. For example: E2QWRUHAPOMQZL.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## NoSuchPublicKey

The specified public key doesn't exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## PublicKeyInUse

The specified public key is in use.

HTTP Status Code: 409

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteRealtimeLogConfig

Service: Amazon CloudFront

Deletes a real-time log configuration.

You cannot delete a real-time log configuration if it's attached to a cache behavior. First update your distributions to remove the real-time log configuration from all cache behaviors, then delete the real-time log configuration.

To delete a real-time log configuration, you can provide the configuration's name or its Amazon Resource Name (ARN). You must provide at least one. If you provide both, CloudFront uses the name to identify the real-time log configuration to delete.

## Request Syntax

```
POST /2020-05-31/delete-realtime-log-config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DeleteRealtimeLogConfigRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <ARN>string</ARN>
  <Name>string</Name>
</DeleteRealtimeLogConfigRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [DeleteRealtimeLogConfigRequest](#)

Root level tag for the DeleteRealtimeLogConfigRequest parameters.

Required: Yes

### [ARN](#)

The Amazon Resource Name (ARN) of the real-time log configuration to delete.

Type: String

Required: No

### Name

The name of the real-time log configuration to delete.

Type: String

Required: No

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

### **RealtimeLogConfigInUse**

Cannot delete the real-time log configuration because it is attached to one or more cache behaviors.

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteResponseHeadersPolicy

Service: Amazon CloudFront

Deletes a response headers policy.

You cannot delete a response headers policy if it's attached to a cache behavior. First update your distributions to remove the response headers policy from all cache behaviors, then delete the response headers policy.

To delete a response headers policy, you must provide the policy's identifier and version. To get these values, you can use `ListResponseHeadersPolicies` or `GetResponseHeadersPolicy`.

## Request Syntax

```
DELETE /2020-05-31/response-headers-policy/Id HTTP/1.1
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier for the response headers policy that you are deleting.

To get the identifier, you can use `ListResponseHeadersPolicies`.

Required: Yes

### If-Match

The version of the response headers policy that you are deleting.

The version is the response headers policy's ETag value, which you can get using `ListResponseHeadersPolicies`, `GetResponseHeadersPolicy`, or `GetResponseHeadersPolicyConfig`.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **IllegalDelete**

Deletion is not allowed for this entity.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### **ResponseHeadersPolicyInUse**

Cannot delete the response headers policy because it is attached to one or more cache behaviors in a CloudFront distribution.

## HTTP Status Code: 409

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteStreamingDistribution

Service: Amazon CloudFront

Delete a streaming distribution. To delete an RTMP distribution using the CloudFront API, perform the following steps.

## To delete an RTMP distribution using the CloudFront API:

1. Disable the RTMP distribution.
2. Submit a GET Streaming Distribution Config request to get the current configuration and the Etag header for the distribution.
3. Update the XML document that was returned in the response to your GET Streaming Distribution Config request to change the value of Enabled to false.
4. Submit a PUT Streaming Distribution Config request to update the configuration for your distribution. In the request body, include the XML document that you updated in Step 3. Then set the value of the HTTP If-Match header to the value of the ETag header that CloudFront returned when you submitted the GET Streaming Distribution Config request in Step 2.
5. Review the response to the PUT Streaming Distribution Config request to confirm that the distribution was successfully disabled.
6. Submit a GET Streaming Distribution Config request to confirm that your changes have propagated. When propagation is complete, the value of Status is Deployed.
7. Submit a DELETE Streaming Distribution request. Set the value of the HTTP If-Match header to the value of the ETag header that CloudFront returned when you submitted the GET Streaming Distribution Config request in Step 2.
8. Review the response to your DELETE Streaming Distribution request to confirm that the distribution was successfully deleted.

For information about deleting a distribution using the CloudFront console, see [Deleting a Distribution](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
DELETE /2020-05-31/streaming-distribution/Id HTTP/1.1
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The distribution ID.

Required: Yes

### If-Match

The value of the ETag header that you received when you disabled the streaming distribution.  
For example: E2QWRUHAPOMQZL.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400



## NoSuchStreamingDistribution

The specified streaming distribution does not exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to `false`.

HTTP Status Code: 412

## StreamingDistributionNotDisabled

The specified CloudFront distribution is not disabled. You must disable the distribution before you can delete it.

HTTP Status Code: 409

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteVpcOrigin

Service: Amazon CloudFront

Delete an Amazon CloudFront VPC origin.

## Request Syntax

```
DELETE /2020-05-31/vpc-origin/Id HTTP/1.1
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The VPC origin ID.

Required: Yes

### If-Match

The VPC origin to delete, if a match occurs.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
<?xml version="1.0" encoding="UTF-8"?>
<VpcOrigin>
  <Arn>string</Arn>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Status>string</Status>
  <VpcOriginEndpointConfig>
    <Arn>string</Arn>
```

```
<HTTPPort>integer</HTTPPort>  
<HTTPSPort>integer</HTTPSPort>  
<Name>string</Name>  
<OriginProtocolPolicy>string</OriginProtocolPolicy>  
<OriginSslProtocols>  
  <Items>  
    <SslProtocol>string</SslProtocol>  
  </Items>  
  <Quantity>integer</Quantity>  
</OriginSslProtocols>  
</VpcOriginEndpointConfig>  
</VpcOrigin>
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

The following data is returned in XML format by the service.

### VpcOrigin

Root level tag for the VpcOrigin parameters.

Required: Yes

### Arn

The VPC origin ARN.

Type: String

### CreatedTime

The VPC origin created time.

Type: Timestamp

### Id

The VPC origin ID.

Type: String

### LastModifiedTime

The VPC origin last modified time.

Type: Timestamp

### Status

The VPC origin status.

Type: String

### VpcOriginEndpointConfig

The VPC origin endpoint configuration.

Type: [VpcOriginEndpointConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CannotDeleteEntityWhileInUse**

The entity cannot be deleted while it is in use.

HTTP Status Code: 409

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **IllegalDelete**

Deletion is not allowed for this entity.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

## **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeFunction

Service: Amazon CloudFront

Gets configuration information and metadata about a CloudFront function, but not the function's code. To get a function's code, use `GetFunction`.

To get configuration information and metadata about a function, you must provide the function's name and stage. To get these values, you can use `ListFunctions`.

## Request Syntax

```
GET /2020-05-31/function/Name/describe?Stage=Stage HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Name

The name of the function that you are getting information about.

Required: Yes

### Stage

The function's stage, either DEVELOPMENT or LIVE.

Valid Values: DEVELOPMENT | LIVE

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FunctionSummary>
  <FunctionConfig>
    <Comment>string</Comment>
    <KeyValueStoreAssociations>
```

```

    <Items>
      <KeyValueStoreAssociation>
        <KeyValueStoreARN>string</KeyValueStoreARN>
      </KeyValueStoreAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </KeyValueStoreAssociations>
  <Runtime>string</Runtime>
</FunctionConfig>
<FunctionMetadata>
  <CreatedTime>timestamp</CreatedTime>
  <FunctionARN>string</FunctionARN>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Stage>string</Stage>
</FunctionMetadata>
<Name>string</Name>
<Status>string</Status>
</FunctionSummary>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FunctionSummary

Root level tag for the FunctionSummary parameters.

Required: Yes

### FunctionConfig

Contains configuration information about a CloudFront function.

Type: [FunctionConfig](#) object

### FunctionMetadata

Contains metadata about a CloudFront function.

Type: [FunctionMetadata](#) object

### Name

The name of the CloudFront function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-\_{1,64}

### Status

The status of the CloudFront function.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **NoSuchFunctionExists**

The function does not exist.

HTTP Status Code: 404

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)



- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeKeyValueStore

Service: Amazon CloudFront

Specifies the key value store and its configuration.

## Request Syntax

```
GET /2020-05-31/key-value-store/Name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Name

The name of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-\_{1,64}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyValueStore>
  <ARN>string</ARN>
  <Comment>string</Comment>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Name>string</Name>
  <Status>string</Status>
</KeyValueStore>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### KeyValueStore

Root level tag for the KeyValueStore parameters.

Required: Yes

### ARN

The Amazon Resource Name (ARN) of the key value store.

Type: String

### Comment

A comment for the key value store.

Type: String

### Id

The unique Id for the key value store.

Type: String

### LastModifiedTime

The last-modified time of the key value store.

Type: Timestamp

### Name

The name of the key value store.

Type: String

### Status

The status of the key value store.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### EntityNotFound

The entity was not found.

HTTP Status Code: 404

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# GetAnycastIpList

Service: Amazon CloudFront

Gets an Anycast static IP list.

## Request Syntax

```
GET /2020-05-31/anycast-ip-list/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The ID of the Anycast static IP list.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<AnycastIpList>
  <AnycastIps>
    <AnycastIp>string</AnycastIp>
  </AnycastIps>
  <Arn>string</Arn>
  <Id>string</Id>
  <IpCount>integer</IpCount>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Name>string</Name>
  <Status>string</Status>
</AnycastIpList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### AnycastIpList

Root level tag for the AnycastIpList parameters.

Required: Yes

### AnycastIps

The static IP addresses that are allocated to the Anycast static IP list.

Type: Array of strings

### Arn

The Amazon Resource Name (ARN) of the Anycast static IP list.

Type: String

### Id

The ID of the Anycast static IP list.

Type: String

### IpCount

The number of IP addresses in the Anycast static IP list.

Type: Integer

### LastModifiedTime

The last time the Anycast static IP list was modified.

Type: Timestamp

### Name

The name of the Anycast static IP list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

## **Status**

The status of the Anycast static IP list. Valid values: Deployed, Deploying, or Failed.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)



- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCachePolicy

Service: Amazon CloudFront

Gets a cache policy, including the following metadata:

- The policy's identifier.
- The date and time when the policy was last modified.

To get a cache policy, you must provide the policy's identifier. If the cache policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the cache policy is not attached to a cache behavior, you can get the identifier using `ListCachePolicies`.

## Request Syntax

```
GET /2020-05-31/cache-policy/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier for the cache policy. If the cache policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the cache policy is not attached to a cache behavior, you can get the identifier using `ListCachePolicies`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicy>
  <CachePolicyConfig>
```

```

<Comment>string</Comment>
<DefaultTTL>long</DefaultTTL>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<Name>string</Name>
<ParametersInCacheKeyAndForwardedToOrigin>
  <CookiesConfig>
    <CookieBehavior>string</CookieBehavior>
    <Cookies>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Cookies>
  </CookiesConfig>
  <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
  <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <QueryStringConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStrings>
  </QueryStringConfig>
</ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</CachePolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### CachePolicy

Root level tag for the CachePolicy parameters.

Required: Yes

### CachePolicyConfig

The cache policy configuration.

Type: [CachePolicyConfig](#) object

### Id

The unique identifier for the cache policy.

Type: String

### LastModifiedTime

The date and time when the cache policy was last modified.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCachePolicyConfig

Service: Amazon CloudFront

Gets a cache policy configuration.

To get a cache policy configuration, you must provide the policy's identifier. If the cache policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the cache policy is not attached to a cache behavior, you can get the identifier using `ListCachePolicies`.

## Request Syntax

```
GET /2020-05-31/cache-policy/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier for the cache policy. If the cache policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the cache policy is not attached to a cache behavior, you can get the identifier using `ListCachePolicies`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicyConfig>
  <Comment>string</Comment>
  <DefaultTTL>long</DefaultTTL>
  <MaxTTL>long</MaxTTL>
```

```

<MinTTL>long</MinTTL>
<Name>string</Name>
<ParametersInCacheKeyAndForwardedToOrigin>
  <CookiesConfig>
    <CookieBehavior>string</CookieBehavior>
    <Cookies>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Cookies>
  </CookiesConfig>
  <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
  <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <QueryStringConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStrings>
  </QueryStringConfig>
</ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### CachePolicyConfig

Root level tag for the CachePolicyConfig parameters.

Required: Yes

### Comment

A comment to describe the cache policy. The comment cannot be longer than 128 characters.

Type: String

### DefaultTTL

The default amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value as the object's time to live (TTL) only when the origin does *not* send `Cache-Control` or `Expires` headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 86400 seconds (one day). If the value of `MinTTL` is more than 86400 seconds, then the default value for this field is the same as the value of `MinTTL`.

Type: Long

### MaxTTL

The maximum amount of time, in seconds, that objects stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value only when the origin sends `Cache-Control` or `Expires` headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 31536000 seconds (one year). If the value of `MinTTL` or `DefaultTTL` is more than 31536000 seconds, then the default value for this field is the same as the value of `DefaultTTL`.

Type: Long

### MinTTL

The minimum amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long



## Name

A unique name to identify the cache policy.

Type: String

## ParametersInCacheKeyAndForwardedToOrigin

The HTTP headers, cookies, and URL query strings to include in the cache key. The values included in the cache key are also included in requests that CloudFront sends to the origin.

Type: [ParametersInCacheKeyAndForwardedToOrigin](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCloudFrontOriginAccessIdentity

Service: Amazon CloudFront

Get the information about an origin access identity.

## Request Syntax

```
GET /2020-05-31/origin-access-identity/cloudfront/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identity's ID.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentity>
  <CloudFrontOriginAccessIdentityConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
  </CloudFrontOriginAccessIdentityConfig>
  <Id>string</Id>
  <S3CanonicalUserId>string</S3CanonicalUserId>
</CloudFrontOriginAccessIdentity>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## [CloudFrontOriginAccessIdentity](#)

Root level tag for the CloudFrontOriginAccessIdentity parameters.

Required: Yes

## [CloudFrontOriginAccessIdentityConfig](#)

The current configuration information for the identity.

Type: [CloudFrontOriginAccessIdentityConfig](#) object

## [Id](#)

The ID for the origin access identity, for example, E74FTE3AJFJ256A.

Type: String

## [S3CanonicalUserId](#)

The Amazon S3 canonical user ID for the origin access identity, used when giving the origin access identity read permission to an object in Amazon S3.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchCloudFrontOriginAccessIdentity**

The specified origin access identity does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCloudFrontOriginAccessIdentityConfig

Service: Amazon CloudFront

Get the configuration information about an origin access identity.

## Request Syntax

```
GET /2020-05-31/origin-access-identity/cloudfront/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identity's ID.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentityConfig>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
</CloudFrontOriginAccessIdentityConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### CloudFrontOriginAccessIdentityConfig

Root level tag for the CloudFrontOriginAccessIdentityConfig parameters.

Required: Yes

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `CloudFrontOriginAccessIdentityConfig` object), a new origin access identity is created.

If the `CallerReference` is a value already sent in a previous identity request, and the content of the `CloudFrontOriginAccessIdentityConfig` is identical to the original request (ignoring white space), the response includes the same information returned to the original request.

If the `CallerReference` is a value you already sent in a previous request to create an identity, but the content of the `CloudFrontOriginAccessIdentityConfig` is different from the original request, CloudFront returns a `CloudFrontOriginAccessIdentityAlreadyExists` error.

Type: String

### Comment

A comment to describe the origin access identity. The comment cannot be longer than 128 characters.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchCloudFrontOriginAccessIdentity**

The specified origin access identity does not exist.

## HTTP Status Code: 404

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetContinuousDeploymentPolicy

Service: Amazon CloudFront

Gets a continuous deployment policy, including metadata (the policy's identifier and the date and time when the policy was last modified).

## Request Syntax

```
GET /2020-05-31/continuous-deployment-policy/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the continuous deployment policy that you are getting.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicy>
  <ContinuousDeploymentPolicyConfig>
    <Enabled>boolean</Enabled>
    <StagingDistributionDnsNames>
      <Items>
        <DnsName>string</DnsName>
      </Items>
    <Quantity>integer</Quantity>
  </StagingDistributionDnsNames>
  <TrafficConfig>
    <SingleHeaderConfig>
      <Header>string</Header>
```

```

    <Value>string</Value>
  </SingleHeaderConfig>
  <SingleWeightConfig>
    <SessionStickinessConfig>
      <IdleTTL>integer</IdleTTL>
      <MaximumTTL>integer</MaximumTTL>
    </SessionStickinessConfig>
    <Weight>float</Weight>
  </SingleWeightConfig>
  <Type>string</Type>
</TrafficConfig>
</ContinuousDeploymentPolicyConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</ContinuousDeploymentPolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### ContinuousDeploymentPolicy

Root level tag for the ContinuousDeploymentPolicy parameters.

Required: Yes

### ContinuousDeploymentPolicyConfig

Contains the configuration for a continuous deployment policy.

Type: [ContinuousDeploymentPolicyConfig](#) object

### Id

The identifier of the continuous deployment policy.

Type: String

### LastModifiedTime

The date and time the continuous deployment policy was last modified.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### NoSuchContinuousDeploymentPolicy

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetContinuousDeploymentPolicyConfig

Service: Amazon CloudFront

Gets configuration information about a continuous deployment policy.

## Request Syntax

```
GET /2020-05-31/continuous-deployment-policy/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the continuous deployment policy whose configuration you are getting.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicyConfig>
  <Enabled>boolean</Enabled>
  <StagingDistributionDnsNames>
    <Items>
      <DnsName>string</DnsName>
    </Items>
    <Quantity>integer</Quantity>
  </StagingDistributionDnsNames>
  <TrafficConfig>
    <SingleHeaderConfig>
      <Header>string</Header>
      <Value>string</Value>
    </SingleHeaderConfig>
```

```
<SingleWeightConfig>
  <SessionStickinessConfig>
    <IdleTTL>integer</IdleTTL>
    <MaximumTTL>integer</MaximumTTL>
  </SessionStickinessConfig>
  <Weight>float</Weight>
</SingleWeightConfig>
<Type>string</Type>
</TrafficConfig>
</ContinuousDeploymentPolicyConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### ContinuousDeploymentPolicyConfig

Root level tag for the ContinuousDeploymentPolicyConfig parameters.

Required: Yes

#### Enabled

A Boolean that indicates whether this continuous deployment policy is enabled (in effect). When this value is `true`, this policy is enabled and in effect. When this value is `false`, this policy is not enabled and has no effect.

Type: Boolean

### StagingDistributionDnsNames

The CloudFront domain name of the staging distribution. For example: `d1111111abcdef8.cloudfront.net`.

Type: [StagingDistributionDnsNames](#) object

### TrafficConfig

Contains the parameters for routing production traffic from your primary to staging distributions.

Type: [TrafficConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### NoSuchContinuousDeploymentPolicy

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetDistribution

Service: Amazon CloudFront

Get the information about a distribution.

## Request Syntax

```
GET /2020-05-31/distribution/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The distribution's ID. If the ID is empty, an empty distribution configuration is returned.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<Distribution>
  <ActiveTrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>
        <KeyGroupId>string</KeyGroupId>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </KeyGroup>
    </Items>
  <Quantity>integer</Quantity>
```

```

</ActiveTrustedKeyGroups>
<ActiveTrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <Signer>
      <AwsAccountNumber>string</AwsAccountNumber>
      <KeyPairIds>
        <Items>
          <KeyPairId>string</KeyPairId>
        </Items>
      <Quantity>integer</Quantity>
    </KeyPairIds>
  </Signer>
</Items>
<Quantity>integer</Quantity>
</ActiveTrustedSigners>
<AliasICPRecordals>
  <AliasICPRecordal>
    <CNAME>string</CNAME>
    <ICPRecordalStatus>string</ICPRecordalStatus>
  </AliasICPRecordal>
</AliasICPRecordals>
<ARN>string</ARN>
<DistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AnycastIpListId>string</AnycastIpListId>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
          <Quantity>integer</Quantity>
        </CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
    </Items>
  </CacheBehaviors>

```



```

    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>
      <WhitelistedNames>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </WhitelistedNames>
    </Cookies>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
  </ForwardedValues>
  <FunctionAssociations>
    <Items>
      <FunctionAssociation>
        <EventType>string</EventType>
        <FunctionARN>string</FunctionARN>
      </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>
  <LambdaFunctionAssociations>
    <Items>

```

```

    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
    </CustomErrorResponse>
  </Items>

```

```

    <ResponsePagePath>string</ResponsePagePath>
  </CustomErrorResponse>
</Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </CachedMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>
      <WhitelistedNames>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </WhitelistedNames>
    </Cookies>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
  </ForwardedValues>
</DefaultCacheBehavior>
</Items>
</CustomErrorResponses>
</ResponsePagePath>
</CustomErrorResponse>
</Items>
</Quantity>
</CustomErrorResponses>
</DefaultCacheBehavior>
</AllowedMethods>
</CachedMethods>
</Items>
</Method>
</Items>
</Quantity>
</CachedMethods>
</Items>
</Method>
</Items>
</Quantity>
</CachePolicyId>
</Compress>
</DefaultTTL>
</FieldLevelEncryptionId>
</ForwardedValues>
</Cookies>
</Forward>
</WhitelistedNames>
</Items>
</Name>
</Items>
</Quantity>
</WhitelistedNames>
</Cookies>
</Headers>
</Items>
</Name>
</Items>
</Quantity>
</Headers>
</QueryString>
</QueryStringCacheKeys>
</Items>
</Name>
</Items>
</Quantity>

```

```

    </QueryStringCacheKeys>
  </ForwardedValues>
  <FunctionAssociations>
    <Items>
      <FunctionAssociation>
        <EventType>string</EventType>
        <FunctionARN>string</FunctionARN>
      </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>
  <LambdaFunctionAssociations>
    <Items>
      <LambdaFunctionAssociation>
        <EventType>string</EventType>
        <IncludeBody>boolean</IncludeBody>
        <LambdaFunctionARN>string</LambdaFunctionARN>
      </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </LambdaFunctionAssociations>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <OriginRequestPolicyId>string</OriginRequestPolicyId>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedKeyGroups>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>

```

```

    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
  </DefaultCacheBehavior>
  <DefaultRootObject>string</DefaultRootObject>
  <Enabled>boolean</Enabled>
  <HttpVersion>string</HttpVersion>
  <IsIPV6Enabled>boolean</IsIPV6Enabled>
  <Logging>
    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <IncludeCookies>boolean</IncludeCookies>
    <Prefix>string</Prefix>
  </Logging>
  <OriginGroups>
    <Items>
      <OriginGroup>
        <FailoverCriteria>
          <StatusCodes>
            <Items>
              <StatusCode>integer</StatusCode>
            </Items>
            <Quantity>integer</Quantity>
          </StatusCodes>
        </FailoverCriteria>
        <Id>string</Id>
        <Members>
          <Items>
            <OriginGroupMember>
              <OriginId>string</OriginId>
            </OriginGroupMember>
          </Items>
          <Quantity>integer</Quantity>
        </Members>
        <SelectionCriteria>string</SelectionCriteria>
      </OriginGroup>
    </Items>
    <Quantity>integer</Quantity>
  </OriginGroups>
  <Origins>
    <Items>
      <Origin>
        <ConnectionAttempts>integer</ConnectionAttempts>
        <ConnectionTimeout>integer</ConnectionTimeout>
        <CustomHeaders>

```

```

    <Items>
      <OriginCustomHeader>
        <HeaderName>string</HeaderName>
        <HeaderValue>string</HeaderValue>
      </OriginCustomHeader>
    </Items>
    <Quantity>integer</Quantity>
  </CustomHeaders>
  <CustomOriginConfig>
    <HTTPPort>integer</HTTPPort>
    <HTTPSPort>integer</HTTPSPort>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </CustomOriginConfig>
  <DomainName>string</DomainName>
  <Id>string</Id>
  <OriginAccessControlId>string</OriginAccessControlId>
  <OriginPath>string</OriginPath>
  <OriginShield>
    <Enabled>boolean</Enabled>
    <OriginShieldRegion>string</OriginShieldRegion>
  </OriginShield>
  <S3OriginConfig>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3OriginConfig>
  <VpcOriginConfig>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <VpcOriginId>string</VpcOriginId>
  </VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>

```

```

    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>
<DomainName>string</DomainName>
<Id>string</Id>
<InProgressInvalidationBatches>integer</InProgressInvalidationBatches>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>
</Distribution>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### Distribution

Root level tag for the Distribution parameters.

Required: Yes

### ActiveTrustedKeyGroups

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

## ActiveTrustedSigners

### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

## AliasICPRecordals

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

## ARN

The distribution's Amazon Resource Name (ARN).

Type: String

## DistributionConfig

The distribution's configuration.

Type: [DistributionConfig](#) object

## DomainName

The distribution's CloudFront domain name. For example:  
`d111111abcdef8.cloudfront.net`.

Type: String

## Id

The distribution's identifier. For example: `E1U5RQF7T870K0`.



Type: String

### InProgressInvalidationBatches

The number of invalidation batches currently in progress.

Type: Integer

### LastModifiedTime

The date and time when the distribution was last modified.

Type: Timestamp

### Status

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchDistribution**

The specified distribution does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetDistributionConfig

Service: Amazon CloudFront

Get the configuration information about a distribution.

## Request Syntax

```
GET /2020-05-31/distribution/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The distribution's ID. If the ID is empty, an empty distribution configuration is returned.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AnycastIpListId>string</AnycastIpListId>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
          </CachedMethods>
        </AllowedMethods>
      </CacheBehavior>
    </Items>
  </CacheBehaviors>
</DistributionConfig>
```

```

    </Items>
    <Quantity>integer</Quantity>
  </CachedMethods>
  <Items>
    <Method>string</Method>
  </Items>
  <Quantity>integer</Quantity>
</AllowedMethods>
<CachePolicyId>string</CachePolicyId>
<Compress>boolean</Compress>
<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>

```

```

</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>

```

```

<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </CachedMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>
      <WhitelistedNames>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </WhitelistedNames>
    </Cookies>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </ForwardedValues>
</DefaultCacheBehavior>

```

```

    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
  </ForwardedValues>
  <FunctionAssociations>
    <Items>
      <FunctionAssociation>
        <EventType>string</EventType>
        <FunctionARN>string</FunctionARN>
      </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>
  <LambdaFunctionAssociations>
    <Items>
      <LambdaFunctionAssociation>
        <EventType>string</EventType>
        <IncludeBody>boolean</IncludeBody>
        <LambdaFunctionARN>string</LambdaFunctionARN>
      </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </LambdaFunctionAssociations>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <OriginRequestPolicyId>string</OriginRequestPolicyId>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedKeyGroups>

```

```

<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>
          </OriginGroupMember>
        </Items>
        <Quantity>integer</Quantity>
      </Members>
      <SelectionCriteria>string</SelectionCriteria>
    </OriginGroup>
  </Items>
  <Quantity>integer</Quantity>
</OriginGroups>

```



```

<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
        <HTTPSPort>integer</HTTPSPort>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginProtocolPolicy>string</OriginProtocolPolicy>
        <OriginReadTimeout>integer</OriginReadTimeout>
        <OriginSslProtocols>
          <Items>
            <SslProtocol>string</SslProtocol>
          </Items>
          <Quantity>integer</Quantity>
        </OriginSslProtocols>
      </CustomOriginConfig>
      <DomainName>string</DomainName>
      <Id>string</Id>
      <OriginAccessControlId>string</OriginAccessControlId>
      <OriginPath>string</OriginPath>
      <OriginShield>
        <Enabled>boolean</Enabled>
        <OriginShieldRegion>string</OriginShieldRegion>
      </OriginShield>
      <S3OriginConfig>
        <OriginAccessIdentity>string</OriginAccessIdentity>
      </S3OriginConfig>
      <VpcOriginConfig>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginReadTimeout>integer</OriginReadTimeout>
        <VpcOriginId>string</VpcOriginId>
      </VpcOriginConfig>
    </Origin>
  </Items>
</Origins>

```

```

    </Items>
    <Quantity>integer</Quantity>
  </Origins>
  <PriceClass>string</PriceClass>
  <Restrictions>
    <GeoRestriction>
      <Items>
        <Location>string</Location>
      </Items>
      <Quantity>integer</Quantity>
      <RestrictionType>string</RestrictionType>
    </GeoRestriction>
  </Restrictions>
  <Staging>boolean</Staging>
  <ViewerCertificate>
    <ACMCertificateArn>string</ACMCertificateArn>
    <Certificate>string</Certificate>
    <CertificateSource>string</CertificateSource>
    <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
    <IAMCertificateId>string</IAMCertificateId>
    <MinimumProtocolVersion>string</MinimumProtocolVersion>
    <SSLSupportMethod>string</SSLSupportMethod>
  </ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionConfig

Root level tag for the DistributionConfig parameters.

Required: Yes

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this distribution.

Type: [Aliases](#) object

## AnycastIpListId

ID of the Anycast static IP list that is associated with the distribution.

Type: String

## CacheBehaviors

A complex type that contains zero or more `CacheBehavior` elements.

Type: [CacheBehaviors](#) object

## CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `DistributionConfig` object), CloudFront creates a new distribution.

If `CallerReference` is a value that you already sent in a previous request to create a distribution, CloudFront returns a `DistributionAlreadyExists` error.

Type: String

## Comment

A comment to describe the distribution. The comment cannot be longer than 128 characters.

Type: String

## ContinuousDeploymentPolicyId

The identifier of a continuous deployment policy. For more information, see `CreateContinuousDeploymentPolicy`.

Type: String

## CustomErrorResponses

A complex type that controls the following:

- Whether CloudFront replaces HTTP status codes in the 4xx and 5xx range with custom error messages before returning the response to the viewer.
- How long CloudFront caches HTTP status codes in the 4xx and 5xx range.

For more information about custom error pages, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

Type: [CustomErrorResponses](#) object

### [DefaultCacheBehavior](#)

A complex type that describes the default cache behavior if you don't specify a `CacheBehavior` element or if files don't match any of the values of `PathPattern` in `CacheBehavior` elements. You must create exactly one default cache behavior.

Type: [DefaultCacheBehavior](#) object

### [DefaultRootObject](#)

When a viewer requests the root URL for your distribution, the default root object is the object that you want CloudFront to request from your origin. For example, if your root URL is `https://www.example.com`, you can specify CloudFront to return the `index.html` file as the default root object. You can specify a default root object so that viewers see a specific file or object, instead of another object in your distribution (for example, `https://www.example.com/product-description.html`). A default root object avoids exposing the contents of your distribution.

You can specify the object name or a path to the object name (for example, `index.html` or `exampleFolderName/index.html`). Your string can't begin with a forward slash (/). Only specify the object name or the path to the object.

If you don't want to specify a default root object when you create a distribution, include an empty `DefaultRootObject` element.

To delete the default root object from an existing distribution, update the distribution configuration and include an empty `DefaultRootObject` element.

To replace the default root object, update the distribution configuration and specify the new object.

For more information about the default root object, see [Specify a default root object](#) in the *Amazon CloudFront Developer Guide*.

Type: String

### [Enabled](#)

From this field, you can enable or disable the selected distribution.

Type: Boolean

### HttpVersion

(Optional) Specify the HTTP version(s) that you want viewers to use to communicate with CloudFront. The default value for new web distributions is `http2`. Viewers that don't support HTTP/2 automatically use an earlier HTTP version.

For viewers and CloudFront to use HTTP/2, viewers must support TLSv1.2 or later, and must support Server Name Indication (SNI).

For viewers and CloudFront to use HTTP/3, viewers must support TLSv1.3 and Server Name Indication (SNI). CloudFront supports HTTP/3 connection migration to allow the viewer to switch networks without losing connection. For more information about connection migration, see [Connection Migration](#) at RFC 9000. For more information about supported TLSv1.3 ciphers, see [Supported protocols and ciphers between viewers and CloudFront](#).

Type: String

Valid Values: `http1.1` | `http2` | `http3` | `http2and3`

### IsIPv6Enabled

If you want CloudFront to respond to IPv6 DNS requests with an IPv6 address for your distribution, specify `true`. If you specify `false`, CloudFront responds to IPv6 DNS requests with the DNS response code `NOERROR` and with no IP addresses. This allows viewers to submit a second request, for an IPv4 address for your distribution.

In general, you should enable IPv6 if you have users on IPv6 networks who want to access your content. However, if you're using signed URLs or signed cookies to restrict access to your content, and if you're using a custom policy that includes the `IpAddress` parameter to restrict the IP addresses that can access your content, don't enable IPv6. If you want to restrict access to some content by IP address and not restrict access to other content (or restrict access but not by IP address), you can create two distributions. For more information, see [Creating a Signed URL Using a Custom Policy](#) in the *Amazon CloudFront Developer Guide*.

If you're using an Amazon Route 53 AWS Integration alias resource record set to route traffic to your CloudFront distribution, you need to create a second alias resource record set when both of the following are true:

- You enable IPv6 for the distribution
- You're using alternate domain names in the URLs for your objects

For more information, see [Routing Traffic to an Amazon CloudFront Web Distribution by Using Your Domain Name](#) in the *Amazon Route 53 AWS Integration Developer Guide*.

If you created a CNAME resource record set, either with Amazon Route 53 AWS Integration or with another DNS service, you don't need to make any changes. A CNAME record will route traffic to your distribution regardless of the IP address format of the viewer request.

Type: Boolean

## [Logging](#)

A complex type that controls whether access logs are written for the distribution.

For more information about logging, see [Access Logs](#) in the *Amazon CloudFront Developer Guide*.

Type: [LoggingConfig](#) object

## [OriginGroups](#)

A complex type that contains information about origin groups for this distribution.

Type: [OriginGroups](#) object

## [Origins](#)

A complex type that contains information about origins for this distribution.

Type: [Origins](#) object

## [PriceClass](#)

The price class that corresponds with the maximum price that you want to pay for CloudFront service. If you specify `PriceClass_All`, CloudFront responds to requests for your objects from all CloudFront edge locations.

If you specify a price class other than `PriceClass_All`, CloudFront serves your objects from the CloudFront edge location that has the lowest latency among the edge locations in your price class. Viewers who are in or near regions that are excluded from your specified price class may encounter slower performance.

For more information about price classes, see [Choosing the Price Class for a CloudFront Distribution](#) in the *Amazon CloudFront Developer Guide*. For information about CloudFront

pricing, including how price classes (such as Price Class 100) map to CloudFront regions, see [Amazon CloudFront Pricing](#).

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

### Restrictions

A complex type that identifies ways in which you want to restrict distribution of your content.

Type: [Restrictions](#) object

### Staging

A Boolean that indicates whether this is a staging distribution. When this value is `true`, this is a staging distribution. When this value is `false`, this is not a staging distribution.

Type: Boolean

### ViewerCertificate

A complex type that determines the distribution's SSL/TLS configuration for communicating with viewers.

Type: [ViewerCertificate](#) object

### WebACLId

A unique identifier that specifies the AWS WAF web ACL, if any, to associate with this distribution. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`.

AWS WAF is a web application firewall that lets you monitor the HTTP and HTTPS requests that are forwarded to CloudFront, and lets you control access to your content. Based on conditions that you specify, such as the IP addresses that requests originate from or the values of query strings, CloudFront responds to requests either with the requested content or with an HTTP 403 status code (Forbidden). You can also configure CloudFront to return a custom error page when a request is blocked. For more information about AWS WAF, see the [AWS WAF Developer Guide](#).

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetFieldLevelEncryption

Service: Amazon CloudFront

Get the field-level encryption configuration information.

## Request Syntax

```
GET /2020-05-31/field-level-encryption/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

Request the ID for the field-level encryption configuration information.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryption>
  <FieldLevelEncryptionConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <ContentTypeProfileConfig>
      <ContentTypeProfiles>
        <Items>
          <ContentTypeProfile>
            <ContentType>string</ContentType>
            <Format>string</Format>
            <ProfileId>string</ProfileId>
          </ContentTypeProfile>
        </Items>
      </ContentTypeProfiles>
    </ContentypeProfileConfig>
  </FieldLevelEncryptionConfig>
</FieldLevelEncryption>
```

```

    </ContentTypeProfiles>
    <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
  </ContentTypeProfileConfig>
  <QueryArgProfileConfig>
    <ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
    <QueryArgProfiles>
      <Items>
        <QueryArgProfile>
          <ProfileId>string</ProfileId>
          <QueryArg>string</QueryArg>
        </QueryArgProfile>
      </Items>
      <Quantity>integer</Quantity>
    </QueryArgProfiles>
  </QueryArgProfileConfig>
</FieldLevelEncryptionConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</FieldLevelEncryption>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [FieldLevelEncryption](#)

Root level tag for the FieldLevelEncryption parameters.

Required: Yes

### [FieldLevelEncryptionConfig](#)

A complex data type that includes the profile configurations specified for field-level encryption.

Type: [FieldLevelEncryptionConfig](#) object

### [Id](#)

The configuration ID for a field-level encryption configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

## **LastModifiedTime**

The last time the field-level encryption configuration was changed.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchFieldLevelEncryptionConfig**

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetFieldLevelEncryptionConfig

Service: Amazon CloudFront

Get the field-level encryption configuration information.

## Request Syntax

```
GET /2020-05-31/field-level-encryption/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

Request the ID for the field-level encryption configuration information.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionConfig>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <ContentTypeProfileConfig>
    <ContentTypeProfiles>
      <Items>
        <ContentTypeProfile>
          <ContentType>string</ContentType>
          <Format>string</Format>
          <ProfileId>string</ProfileId>
        </ContentTypeProfile>
      </Items>
      <Quantity>integer</Quantity>
    </ContentTypeProfiles>
  <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
```

```

</ContentTypeProfileConfig>
<QueryArgProfileConfig>
<ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
  <QueryArgProfiles>
    <Items>
      <QueryArgProfile>
        <ProfileId>string</ProfileId>
        <QueryArg>string</QueryArg>
      </QueryArgProfile>
    </Items>
    <Quantity>integer</Quantity>
  </QueryArgProfiles>
</QueryArgProfileConfig>
</FieldLevelEncryptionConfig>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [FieldLevelEncryptionConfig](#)

Root level tag for the FieldLevelEncryptionConfig parameters.

Required: Yes

### [CallerReference](#)

A unique number that ensures the request can't be replayed.

Type: String

### [Comment](#)

An optional comment about the configuration. The comment cannot be longer than 128 characters.

Type: String

### [ContentTypeProfileConfig](#)

A complex data type that specifies when to forward content if a content type isn't recognized and profiles to use as by default in a request if a query argument doesn't specify a profile to use.

Type: [ContentTypeProfileConfig](#) object

## [QueryArgProfileConfig](#)

A complex data type that specifies when to forward content if a profile isn't found and the profile that can be provided as a query argument in a request.

Type: [QueryArgProfileConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### NoSuchFieldLevelEncryptionConfig

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetFieldLevelEncryptionProfile

Service: Amazon CloudFront

Get the field-level encryption profile information.

## Request Syntax

```
GET /2020-05-31/field-level-encryption-profile/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

Get the ID for the field-level encryption profile information.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfile>
  <FieldLevelEncryptionProfileConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <EncryptionEntities>
      <Items>
        <EncryptionEntity>
          <FieldPatterns>
            <Items>
              <FieldPattern>string</FieldPattern>
            </Items>
            <Quantity>integer</Quantity>
          </FieldPatterns>
          <ProviderId>string</ProviderId>
          <PublicKeyId>string</PublicKeyId>
        </EncryptionEntity>
      </Items>
    </EncryptionEntities>
  </FieldLevelEncryptionProfileConfig>
</FieldLevelEncryptionProfile>
```



```
</EncryptionEntity>
</Items>
<Quantity>integer</Quantity>
</EncryptionEntities>
<Name>string</Name>
</FieldLevelEncryptionProfileConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</FieldLevelEncryptionProfile>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [FieldLevelEncryptionProfile](#)

Root level tag for the FieldLevelEncryptionProfile parameters.

Required: Yes

### [FieldLevelEncryptionProfileConfig](#)

A complex data type that includes the profile name and the encryption entities for the field-level encryption profile.

Type: [FieldLevelEncryptionProfileConfig](#) object

### [Id](#)

The ID for a field-level encryption profile configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

### [LastModifiedTime](#)

The last time the field-level encryption profile was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## NoSuchFieldLevelEncryptionProfile

The specified profile for field-level encryption doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetFieldLevelEncryptionProfileConfig

Service: Amazon CloudFront

Get the field-level encryption profile configuration information.

## Request Syntax

```
GET /2020-05-31/field-level-encryption-profile/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

Get the ID for the field-level encryption profile configuration information.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfileConfig>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <EncryptionEntities>
    <Items>
      <EncryptionEntity>
        <FieldPatterns>
          <Items>
            <FieldPattern>string</FieldPattern>
          </Items>
          <Quantity>integer</Quantity>
        </FieldPatterns>
        <ProviderId>string</ProviderId>
        <PublicKeyId>string</PublicKeyId>
```

```
</EncryptionEntity>
</Items>
<Quantity>integer</Quantity>
</EncryptionEntities>
<Name>string</Name>
</FieldLevelEncryptionProfileConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FieldLevelEncryptionProfileConfig

Root level tag for the FieldLevelEncryptionProfileConfig parameters.

Required: Yes

### CallerReference

A unique number that ensures that the request can't be replayed.

Type: String

### Comment

An optional comment for the field-level encryption profile. The comment cannot be longer than 128 characters.

Type: String

### EncryptionEntities

A complex data type of encryption entities for the field-level encryption profile that include the public key ID, provider, and field patterns for specifying which fields to encrypt with this key.

Type: [EncryptionEntities](#) object

### Name

Profile name for the field-level encryption profile.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### NoSuchFieldLevelEncryptionProfile

The specified profile for field-level encryption doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetFunction

Service: Amazon CloudFront

Gets the code of a CloudFront function. To get configuration information and metadata about a function, use `DescribeFunction`.

To get a function's code, you must provide the function's name and stage. To get these values, you can use `ListFunctions`.

## Request Syntax

```
GET /2020-05-31/function/Name?Stage=Stage HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Name

The name of the function whose code you are getting.

Required: Yes

### Stage

The function's stage, either `DEVELOPMENT` or `LIVE`.

Valid Values: `DEVELOPMENT` | `LIVE`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### NoSuchFunctionExists

The function does not exist.

HTTP Status Code: 404

### UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetInvalidation

Service: Amazon CloudFront

Get the information about an invalidation.

## Request Syntax

```
GET /2020-05-31/distribution/DistributionId/invalidation/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DistributionId

The distribution's ID.

Required: Yes

### Id

The identifier for the invalidation request, for example, IDFDVBD632BHDS5.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<Invalidation>
  <CreateTime>timestamp</CreateTime>
  <Id>string</Id>
  <InvalidationBatch>
    <CallerReference>string</CallerReference>
    <Paths>
      <Items>
        <Path>string</Path>
      </Items>
    </Paths>
  </InvalidationBatch>
</Invalidation>
```



```
<Quantity>integer</Quantity>
</Paths>
</InvalidationBatch>
<Status>string</Status>
</Invalidation>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### Invalidation

Root level tag for the Invalidation parameters.

Required: Yes

### CreateTime

The date and time the invalidation request was first made.

Type: Timestamp

### Id

The identifier for the invalidation request. For example: IDFDVBD632BHDS5.

Type: String

### InvalidationBatch

The current invalidation information for the batch request.

Type: [InvalidationBatch](#) object

### Status

The status of the invalidation request. When the invalidation batch is finished, the status is Completed.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## NoSuchInvalidation

The specified invalidation does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetKeyGroup

Service: Amazon CloudFront

Gets a key group, including the date and time when the key group was last modified.

To get a key group, you must provide the key group's identifier. If the key group is referenced in a distribution's cache behavior, you can get the key group's identifier using `ListDistributions` or `GetDistribution`. If the key group is not referenced in a cache behavior, you can get the identifier using `ListKeyGroups`.

## Request Syntax

```
GET /2020-05-31/key-group/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the key group that you are getting. To get the identifier, use `ListKeyGroups`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroup>
  <Id>string</Id>
  <KeyGroupConfig>
    <Comment>string</Comment>
    <Items>
      <PublicKey>string</PublicKey>
    </Items>
    <Name>string</Name>
```

```
</KeyGroupConfig>  
<LastModifiedTime>timestamp</LastModifiedTime>  
</KeyGroup>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### KeyGroup

Root level tag for the KeyGroup parameters.

Required: Yes

### Id

The identifier for the key group.

Type: String

### KeyGroupConfig

The key group configuration.

Type: [KeyGroupConfig](#) object

### LastModifiedTime

The date and time when the key group was last modified.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **NoSuchResource**

A resource that was specified is not valid.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetKeyGroupConfig

Service: Amazon CloudFront

Gets a key group configuration.

To get a key group configuration, you must provide the key group's identifier. If the key group is referenced in a distribution's cache behavior, you can get the key group's identifier using `ListDistributions` or `GetDistribution`. If the key group is not referenced in a cache behavior, you can get the identifier using `ListKeyGroups`.

## Request Syntax

```
GET /2020-05-31/key-group/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the key group whose configuration you are getting. To get the identifier, use `ListKeyGroups`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroupConfig>
  <Comment>string</Comment>
  <Items>
    <PublicKey>string</PublicKey>
  </Items>
  <Name>string</Name>
</KeyGroupConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### KeyGroupConfig

Root level tag for the KeyGroupConfig parameters.

Required: Yes

### Comment

A comment to describe the key group. The comment cannot be longer than 128 characters.

Type: String

### Items

A list of the identifiers of the public keys in the key group.

Type: Array of strings

### Name

A name to identify the key group.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **NoSuchResource**

A resource that was specified is not valid.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetMonitoringSubscription

Service: Amazon CloudFront

Gets information about whether additional CloudWatch metrics are enabled for the specified CloudFront distribution.

## Request Syntax

```
GET /2020-05-31/distributions/DistributionId/monitoring-subscription HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DistributionId

The ID of the distribution that you are getting metrics information for.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<MonitoringSubscription>
  <RealtimeMetricsSubscriptionConfig>
    <RealtimeMetricsSubscriptionStatus>string</RealtimeMetricsSubscriptionStatus>
  </RealtimeMetricsSubscriptionConfig>
</MonitoringSubscription>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## MonitoringSubscription

Root level tag for the MonitoringSubscription parameters.

Required: Yes

## RealtimeMetricsSubscriptionConfig

A subscription configuration for additional CloudWatch metrics.

Type: [RealtimeMetricsSubscriptionConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

### NoSuchMonitoringSubscription

A monitoring subscription does not exist for the specified distribution.

HTTP Status Code: 404

### UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetOriginAccessControl

Service: Amazon CloudFront

Gets a CloudFront origin access control, including its unique identifier.

## Request Syntax

```
GET /2020-05-31/origin-access-control/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier of the origin access control.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControl>
  <Id>string</Id>
  <OriginAccessControlConfig>
    <Description>string</Description>
    <Name>string</Name>
    <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
    <SigningBehavior>string</SigningBehavior>
    <SigningProtocol>string</SigningProtocol>
  </OriginAccessControlConfig>
</OriginAccessControl>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginAccessControl

Root level tag for the OriginAccessControl parameters.

Required: Yes

#### Id

The unique identifier of the origin access control.

Type: String

### OriginAccessControlConfig

The origin access control.

Type: [OriginAccessControlConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchOriginAccessControl**

The origin access control does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetOriginAccessControlConfig

Service: Amazon CloudFront

Gets a CloudFront origin access control configuration.

## Request Syntax

```
GET /2020-05-31/origin-access-control/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier of the origin access control.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControlConfig>
  <Description>string</Description>
  <Name>string</Name>
  <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
  <SigningBehavior>string</SigningBehavior>
  <SigningProtocol>string</SigningProtocol>
</OriginAccessControlConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## OriginAccessControlConfig

Root level tag for the OriginAccessControlConfig parameters.

Required: Yes

### Description

A description of the origin access control.

Type: String

### Name

A name to identify the origin access control. You can specify up to 64 characters.

Type: String

### OriginAccessControlOriginType

The type of origin that this origin access control is for.

Type: String

Valid Values: s3 | mediastore | mediapackagev2 | lambda

### SigningBehavior

Specifies which requests CloudFront signs (adds authentication information to). Specify `always` for the most common use case. For more information, see [origin access control advanced settings](#) in the *Amazon CloudFront Developer Guide*.

This field can have one of the following values:

- `always` – CloudFront signs all origin requests, overwriting the `Authorization` header from the viewer request if one exists.
- `never` – CloudFront doesn't sign any origin requests. This value turns off origin access control for all origins in all distributions that use this origin access control.
- `no-override` – If the viewer request doesn't contain the `Authorization` header, then CloudFront signs the origin request. If the viewer request contains the `Authorization` header, then CloudFront doesn't sign the origin request and instead passes along the `Authorization` header from the viewer request. **WARNING: To pass along the `Authorization` header from the viewer request, you *must* add the `Authorization`**



header to a [cache policy](#) for all cache behaviors that use origins associated with this origin access control.

Type: String

Valid Values: never | always | no-override

### [SigningProtocol](#)

The signing protocol of the origin access control, which determines how CloudFront signs (authenticates) requests. The only valid value is `sigv4`.

Type: String

Valid Values: `sigv4`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchOriginAccessControl**

The origin access control does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetOriginRequestPolicy

Service: Amazon CloudFront

Gets an origin request policy, including the following metadata:

- The policy's identifier.
- The date and time when the policy was last modified.

To get an origin request policy, you must provide the policy's identifier. If the origin request policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the origin request policy is not attached to a cache behavior, you can get the identifier using `ListOriginRequestPolicies`.

## Request Syntax

```
GET /2020-05-31/origin-request-policy/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier for the origin request policy. If the origin request policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the origin request policy is not attached to a cache behavior, you can get the identifier using `ListOriginRequestPolicies`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicy>
```

```

<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
<OriginRequestPolicyConfig>
  <Comment>string</Comment>
  <CookiesConfig>
    <CookieBehavior>string</CookieBehavior>
    <Cookies>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Cookies>
  </CookiesConfig>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <Name>string</Name>
  <QueryStringConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStrings>
  </QueryStringConfig>
</OriginRequestPolicyConfig>
</OriginRequestPolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginRequestPolicy

Root level tag for the OriginRequestPolicy parameters.

Required: Yes

### Id

The unique identifier for the origin request policy.

Type: String

### LastModifiedTime

The date and time when the origin request policy was last modified.

Type: Timestamp

### OriginRequestPolicyConfig

The origin request policy configuration.

Type: [OriginRequestPolicyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetOriginRequestPolicyConfig

Service: Amazon CloudFront

Gets an origin request policy configuration.

To get an origin request policy configuration, you must provide the policy's identifier. If the origin request policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the origin request policy is not attached to a cache behavior, you can get the identifier using `ListOriginRequestPolicies`.

## Request Syntax

```
GET /2020-05-31/origin-request-policy/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier for the origin request policy. If the origin request policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the origin request policy is not attached to a cache behavior, you can get the identifier using `ListOriginRequestPolicies`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicyConfig>
  <Comment>string</Comment>
  <CookiesConfig>
    <CookieBehavior>string</CookieBehavior>
    <Cookies>
      <Items>
```

```

        <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
</Cookies>
</CookiesConfig>
<HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
        <Items>
            <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
    </Headers>
</HeadersConfig>
<Name>string</Name>
<QueryStringConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
    <QueryStrings>
        <Items>
            <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
    </QueryStrings>
</QueryStringConfig>
</OriginRequestPolicyConfig>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginRequestPolicyConfig

Root level tag for the OriginRequestPolicyConfig parameters.

Required: Yes

### Comment

A comment to describe the origin request policy. The comment cannot be longer than 128 characters.

Type: String



## CookiesConfig

The cookies from viewer requests to include in origin requests.

Type: [OriginRequestPolicyCookiesConfig](#) object

## HeadersConfig

The HTTP headers to include in origin requests. These can include headers from viewer requests and additional headers added by CloudFront.

Type: [OriginRequestPolicyHeadersConfig](#) object

## Name

A unique name to identify the origin request policy.

Type: String

## QueryStringsConfig

The URL query strings from viewer requests to include in origin requests.

Type: [OriginRequestPolicyQueryStringsConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetPublicKey

Service: Amazon CloudFront

Gets a public key.

## Request Syntax

```
GET /2020-05-31/public-key/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the public key you are getting.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<PublicKey>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <PublicKeyConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <EncodedKey>string</EncodedKey>
    <Name>string</Name>
  </PublicKeyConfig>
</PublicKey>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### PublicKey

Root level tag for the PublicKey parameters.

Required: Yes

### CreatedTime

The date and time when the public key was uploaded.

Type: Timestamp

### Id

The identifier of the public key.

Type: String

### PublicKeyConfig

Configuration information about a public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: [PublicKeyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchPublicKey**

The specified public key doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetPublicKeyConfig

Service: Amazon CloudFront

Gets a public key configuration.

## Request Syntax

```
GET /2020-05-31/public-key/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the public key whose configuration you are getting.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<PublicKeyConfig>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <EncodedKey>string</EncodedKey>
  <Name>string</Name>
</PublicKeyConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## PublicKeyConfig

Root level tag for the PublicKeyConfig parameters.

Required: Yes

## CallerReference

A string included in the request to help make sure that the request can't be replayed.

Type: String

## Comment

A comment to describe the public key. The comment cannot be longer than 128 characters.

Type: String

## EncodedKey

The public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: String

## Name

A name to help identify the public key.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchPublicKey**

The specified public key doesn't exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetRealtimeLogConfig

Service: Amazon CloudFront

Gets a real-time log configuration.

To get a real-time log configuration, you can provide the configuration's name or its Amazon Resource Name (ARN). You must provide at least one. If you provide both, CloudFront uses the name to identify the real-time log configuration to get.

## Request Syntax

```
POST /2020-05-31/get-realtime-log-config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<GetRealtimeLogConfigRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <ARN>string</ARN>
  <Name>string</Name>
</GetRealtimeLogConfigRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### GetRealtimeLogConfigRequest

Root level tag for the GetRealtimeLogConfigRequest parameters.

Required: Yes

#### ARN

The Amazon Resource Name (ARN) of the real-time log configuration to get.

Type: String

Required: No

#### Name

The name of the real-time log configuration to get.

Type: String

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetRealtimeLogConfigResult>
  <RealtimeLogConfig>
    <ARN>string</ARN>
    <EndPoints>
      <EndPoint>
        <KinesisStreamConfig>
          <RoleARN>string</RoleARN>
          <StreamARN>string</StreamARN>
        </KinesisStreamConfig>
        <StreamType>string</StreamType>
      </EndPoint>
    </EndPoints>
    <Fields>
      <Field>string</Field>
    </Fields>
    <Name>string</Name>
    <SamplingRate>long</SamplingRate>
  </RealtimeLogConfig>
</GetRealtimeLogConfigResult>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### GetRealtimeLogConfigResult

Root level tag for the GetRealtimeLogConfigResult parameters.

Required: Yes

### RealtimeLogConfig

A real-time log configuration.

Type: [RealtimeLogConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### NoSuchRealtimeLogConfig

The real-time log configuration does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## GetResponseHeadersPolicy

Service: Amazon CloudFront

Gets a response headers policy, including metadata (the policy's identifier and the date and time when the policy was last modified).

To get a response headers policy, you must provide the policy's identifier. If the response headers policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the response headers policy is not attached to a cache behavior, you can get the identifier using `ListResponseHeadersPolicies`.

### Request Syntax

```
GET /2020-05-31/response-headers-policy/Id HTTP/1.1
```

### URI Request Parameters

The request uses the following URI parameters.

#### Id

The identifier for the response headers policy.

If the response headers policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the response headers policy is not attached to a cache behavior, you can get the identifier using `ListResponseHeadersPolicies`.

Required: Yes

### Request Body

The request does not have a request body.

### Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicy>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
```

```

<ResponseHeadersPolicyConfig>
  <Comment>string</Comment>
  <CorsConfig>
    <AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
    <AccessControlAllowHeaders>
      <Items>
        <Header>string</Header>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowHeaders>
    <AccessControlAllowMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowMethods>
    <AccessControlAllowOrigins>
      <Items>
        <Origin>string</Origin>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowOrigins>
    <AccessControlExposeHeaders>
      <Items>
        <Header>string</Header>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlExposeHeaders>
    <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
    <OriginOverride>boolean</OriginOverride>
  </CorsConfig>
  <CustomHeadersConfig>
    <Items>
      <ResponseHeadersPolicyCustomHeader>
        <Header>string</Header>
        <Override>boolean</Override>
        <Value>string</Value>
      </ResponseHeadersPolicyCustomHeader>
    </Items>
    <Quantity>integer</Quantity>
  </CustomHeadersConfig>
  <Name>string</Name>
  <RemoveHeadersConfig>
    <Items>

```

```

    <ResponseHeadersPolicyRemoveHeader>
      <Header>string</Header>
    </ResponseHeadersPolicyRemoveHeader>
  </Items>
  <Quantity>integer</Quantity>
</RemoveHeadersConfig>
<SecurityHeadersConfig>
  <ContentSecurityPolicy>
    <ContentSecurityPolicy>string</ContentSecurityPolicy>
    <Override>boolean</Override>
  </ContentSecurityPolicy>
  <ContentTypeOptions>
    <Override>boolean</Override>
  </ContentTypeOptions>
  <FrameOptions>
    <FrameOption>string</FrameOption>
    <Override>boolean</Override>
  </FrameOptions>
  <ReferrerPolicy>
    <Override>boolean</Override>
    <ReferrerPolicy>string</ReferrerPolicy>
  </ReferrerPolicy>
  <StrictTransportSecurity>
    <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
    <IncludeSubdomains>boolean</IncludeSubdomains>
    <Override>boolean</Override>
    <Preload>boolean</Preload>
  </StrictTransportSecurity>
  <XSSProtection>
    <ModeBlock>boolean</ModeBlock>
    <Override>boolean</Override>
    <Protection>boolean</Protection>
    <ReportUri>string</ReportUri>
  </XSSProtection>
</SecurityHeadersConfig>
<ServerTimingHeadersConfig>
  <Enabled>boolean</Enabled>
  <SamplingRate>double</SamplingRate>
</ServerTimingHeadersConfig>
</ResponseHeadersPolicyConfig>
</ResponseHeadersPolicy>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### ResponseHeadersPolicy

Root level tag for the ResponseHeadersPolicy parameters.

Required: Yes

#### Id

The identifier for the response headers policy.

Type: String

### LastModifiedTime

The date and time when the response headers policy was last modified.

Type: Timestamp

### ResponseHeadersPolicyConfig

A response headers policy configuration.

Type: [ResponseHeadersPolicyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetResponseHeadersPolicyConfig

Service: Amazon CloudFront

Gets a response headers policy configuration.

To get a response headers policy configuration, you must provide the policy's identifier. If the response headers policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the response headers policy is not attached to a cache behavior, you can get the identifier using `ListResponseHeadersPolicies`.

## Request Syntax

```
GET /2020-05-31/response-headers-policy/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier for the response headers policy.

If the response headers policy is attached to a distribution's cache behavior, you can get the policy's identifier using `ListDistributions` or `GetDistribution`. If the response headers policy is not attached to a cache behavior, you can get the identifier using `ListResponseHeadersPolicies`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicyConfig>
  <Comment>string</Comment>
  <CorsConfig>
    <AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
```

```

<AccessControlAllowHeaders>
  <Items>
    <Header>string</Header>
  </Items>
  <Quantity>integer</Quantity>
</AccessControlAllowHeaders>
<AccessControlAllowMethods>
  <Items>
    <Method>string</Method>
  </Items>
  <Quantity>integer</Quantity>
</AccessControlAllowMethods>
<AccessControlAllowOrigins>
  <Items>
    <Origin>string</Origin>
  </Items>
  <Quantity>integer</Quantity>
</AccessControlAllowOrigins>
<AccessControlExposeHeaders>
  <Items>
    <Header>string</Header>
  </Items>
  <Quantity>integer</Quantity>
</AccessControlExposeHeaders>
<AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
<OriginOverride>boolean</OriginOverride>
</CorsConfig>
<CustomHeadersConfig>
  <Items>
    <ResponseHeadersPolicyCustomHeader>
      <Header>string</Header>
      <Override>boolean</Override>
      <Value>string</Value>
    </ResponseHeadersPolicyCustomHeader>
  </Items>
  <Quantity>integer</Quantity>
</CustomHeadersConfig>
<Name>string</Name>
<RemoveHeadersConfig>
  <Items>
    <ResponseHeadersPolicyRemoveHeader>
      <Header>string</Header>
    </ResponseHeadersPolicyRemoveHeader>
  </Items>

```

```

    <Quantity>integer</Quantity>
  </RemoveHeadersConfig>
  <SecurityHeadersConfig>
    <ContentSecurityPolicy>
      <ContentSecurityPolicy>string</ContentSecurityPolicy>
      <Override>boolean</Override>
    </ContentSecurityPolicy>
    <ContentTypeOptions>
      <Override>boolean</Override>
    </ContentTypeOptions>
    <FrameOptions>
      <FrameOption>string</FrameOption>
      <Override>boolean</Override>
    </FrameOptions>
    <ReferrerPolicy>
      <Override>boolean</Override>
      <ReferrerPolicy>string</ReferrerPolicy>
    </ReferrerPolicy>
    <StrictTransportSecurity>
      <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
      <IncludeSubdomains>boolean</IncludeSubdomains>
      <Override>boolean</Override>
      <Preload>boolean</Preload>
    </StrictTransportSecurity>
    <XSSProtection>
      <ModeBlock>boolean</ModeBlock>
      <Override>boolean</Override>
      <Protection>boolean</Protection>
      <ReportUri>string</ReportUri>
    </XSSProtection>
  </SecurityHeadersConfig>
  <ServerTimingHeadersConfig>
    <Enabled>boolean</Enabled>
    <SamplingRate>double</SamplingRate>
  </ServerTimingHeadersConfig>
</ResponseHeadersPolicyConfig>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## **ResponseHeadersPolicyConfig**

Root level tag for the ResponseHeadersPolicyConfig parameters.

Required: Yes

### **Comment**

A comment to describe the response headers policy.

The comment cannot be longer than 128 characters.

Type: String

### **CorsConfig**

A configuration for a set of HTTP response headers that are used for cross-origin resource sharing (CORS).

Type: [ResponseHeadersPolicyCorsConfig](#) object

### **CustomHeadersConfig**

A configuration for a set of custom HTTP response headers.

Type: [ResponseHeadersPolicyCustomHeadersConfig](#) object

### **Name**

A name to identify the response headers policy.

The name must be unique for response headers policies in this AWS account.

Type: String

### **RemoveHeadersConfig**

A configuration for a set of HTTP headers to remove from the HTTP response.

Type: [ResponseHeadersPolicyRemoveHeadersConfig](#) object

### **SecurityHeadersConfig**

A configuration for a set of security-related HTTP response headers.

Type: [ResponseHeadersPolicySecurityHeadersConfig](#) object

## **ServerTimingHeadersConfig**

A configuration for enabling the `Server-Timing` header in HTTP responses sent from CloudFront.

Type: [ResponseHeadersPolicyServerTimingHeadersConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetStreamingDistribution

Service: Amazon CloudFront

Gets information about a specified RTMP distribution, including the distribution configuration.

## Request Syntax

```
GET /2020-05-31/streaming-distribution/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The streaming distribution's ID.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistribution>
  <ActiveTrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <Signer>
        <AwsAccountNumber>string</AwsAccountNumber>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </Signer>
```

```

    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedSigners>
  <ARN>string</ARN>
  <DomainName>string</DomainName>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Status>string</Status>
  <StreamingDistributionConfig>
    <Aliases>
      <Items>
        <CNAME>string</CNAME>
      </Items>
      <Quantity>integer</Quantity>
    </Aliases>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <Enabled>boolean</Enabled>
    <Logging>
      <Bucket>string</Bucket>
      <Enabled>boolean</Enabled>
      <Prefix>string</Prefix>
    </Logging>
    <PriceClass>string</PriceClass>
    <S3Origin>
      <DomainName>string</DomainName>
      <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3Origin>
    <TrustedSigners>
      <Enabled>boolean</Enabled>
      <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
      </Items>
      <Quantity>integer</Quantity>
    </TrustedSigners>
  </StreamingDistributionConfig>
</StreamingDistribution>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## StreamingDistribution

Root level tag for the StreamingDistribution parameters.

Required: Yes

### ActiveTrustedSigners

A complex type that lists the AWS accounts, if any, that you included in the TrustedSigners complex type for this distribution. These are the accounts that you want to allow to create signed URLs for private content.

The Signer complex type lists the AWS account number of the trusted signer or self if the signer is the AWS account that created the distribution. The Signer element also includes the IDs of any active CloudFront key pairs that are associated with the trusted signer's AWS account. If no KeyPairId element appears for a Signer, that signer can't create signed URLs.

For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [ActiveTrustedSigners](#) object

### ARN

The ARN (Amazon Resource Name) for the distribution. For example: `arn:aws:cloudfront::123456789012:distribution/EDFDVBD632BHDS5`, where 123456789012 is your AWS account ID.

Type: String

### DomainName

The domain name that corresponds to the streaming distribution, for example, `s5c39gqb8ow64r.cloudfront.net`.

Type: String

### Id

The identifier for the RTMP distribution. For example: `EGTXBD79EXAMPLE`.

Type: String

### LastModifiedTime

The date and time that the distribution was last modified.



Type: Timestamp

### **Status**

The current status of the RTMP distribution. When the status is `Deployed`, the distribution's information is propagated to all CloudFront edge locations.

Type: String

### **StreamingDistributionConfig**

The current configuration information for the RTMP distribution.

Type: [StreamingDistributionConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **NoSuchStreamingDistribution**

The specified streaming distribution does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetStreamingDistributionConfig

Service: Amazon CloudFront

Get the configuration information about a streaming distribution.

## Request Syntax

```
GET /2020-05-31/streaming-distribution/Id/config HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The streaming distribution's ID.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <Enabled>boolean</Enabled>
  <Logging>
    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <Prefix>string</Prefix>
```

```
</Logging>
<PriceClass>string</PriceClass>
<S3Origin>
  <DomainName>string</DomainName>
  <OriginAccessIdentity>string</OriginAccessIdentity>
</S3Origin>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
</StreamingDistributionConfig>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### StreamingDistributionConfig

Root level tag for the StreamingDistributionConfig parameters.

Required: Yes

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this streaming distribution.

Type: [Aliases](#) object

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of CallerReference is new (regardless of the content of the StreamingDistributionConfig object), CloudFront creates a new distribution.

If CallerReference is a value that you already sent in a previous request to create a distribution, CloudFront returns a DistributionAlreadyExists error.

Type: String

### Comment

Any comments you want to include about the streaming distribution.

Type: String

### Enabled

Whether the streaming distribution is enabled to accept user requests for content.

Type: Boolean

### Logging

A complex type that controls whether access logs are written for the streaming distribution.

Type: [StreamingLoggingConfig](#) object

### PriceClass

A complex type that contains information about price class for this streaming distribution.

Type: String

Valid Values: PriceClass\_100 | PriceClass\_200 | PriceClass\_All

### S3Origin

A complex type that contains information about the Amazon S3 bucket from which you want CloudFront to get your media files for distribution.

Type: [S3Origin](#) object

### TrustedSigners

A complex type that specifies any AWS accounts that you want to permit to create signed URLs for private content. If you want the distribution to use signed URLs, include this element; if you want the distribution to use public URLs, remove this element. For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## NoSuchStreamingDistribution

The specified streaming distribution does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetVpcOrigin

Service: Amazon CloudFront

Get the details of an Amazon CloudFront VPC origin.

## Request Syntax

```
GET /2020-05-31/vpc-origin/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The VPC origin ID.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<VpcOrigin>
  <Arn>string</Arn>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Status>string</Status>
  <VpcOriginEndpointConfig>
    <Arn>string</Arn>
    <HTTPPort>integer</HTTPPort>
    <HTTPSPort>integer</HTTPSPort>
    <Name>string</Name>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginSslProtocols>
      <Items>
```

```
<SslProtocol>string</SslProtocol>
  </Items>
  <Quantity>integer</Quantity>
</OriginSslProtocols>
</VpcOriginEndpointConfig>
</VpcOrigin>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### VpcOrigin

Root level tag for the VpcOrigin parameters.

Required: Yes

### Arn

The VPC origin ARN.

Type: String

### CreatedTime

The VPC origin created time.

Type: Timestamp

### Id

The VPC origin ID.

Type: String

### LastModifiedTime

The VPC origin last modified time.

Type: Timestamp

### Status

The VPC origin status.



Type: String

### **VpcOriginEndpointConfig**

The VPC origin endpoint configuration.

Type: [VpcOriginEndpointConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAnycastIpLists

Service: Amazon CloudFront

Lists your Anycast static IP lists.

## Request Syntax

```
GET /2020-05-31/anycast-ip-list?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list. The response includes items in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of Anycast static IP lists that you want returned in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<AnycastIpListCollection>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <AnycastIpListSummary>
      <Arn>string</Arn>
      <Id>string</Id>
      <IpCount>integer</IpCount>
      <LastModifiedTime>timestamp</LastModifiedTime>
      <Name>string</Name>
      <Status>string</Status>
    </AnycastIpListSummary>
```

```
</Items>  
<Marker>string</Marker>  
<MaxItems>integer</MaxItems>  
<NextMarker>string</NextMarker>  
<Quantity>integer</Quantity>  
</AnycastIpListCollection>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [AnycastIpListCollection](#)

Root level tag for the AnycastIpListCollection parameters.

Required: Yes

### [IsTruncated](#)

If there are more items in the list collection than are in this response, this value is `true`.

Type: Boolean

### [Items](#)

Items in the Anycast static IP list collection. Each item is of the [AnycastIpListSummary](#) structure type.

Type: Array of [AnycastIpListSummary](#) objects

### [Marker](#)

Use this field when paginating results to indicate where to begin in your list. The response includes items in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

Type: String

### [MaxItems](#)

The maximum number of Anycast static IP list collections that you want returned in the response.

Type: Integer

## NextMarker

Indicates the next page of the Anycast static IP list collection. To get the next page of the list, use this value in the `Marker` field of your request.

Type: String

## Quantity

The quantity of Anycast static IP lists in the collection.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCachePolicies

Service: Amazon CloudFront

Gets a list of cache policies.

You can optionally apply a filter to return only the managed policies created by AWS, or only the custom policies created in your AWS account.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/cache-policy?Marker=Marker&MaxItems=MaxItems&Type=Type HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of cache policies. The response includes cache policies in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of cache policies that you want in the response.

### Type

A filter to return only the specified kinds of cache policies. Valid values are:

- `managed` – Returns only the managed policies created by AWS.
- `custom` – Returns only the custom policies created in your AWS account.

Valid Values: `managed` | `custom`

## Request Body

The request does not have a request body.

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicyList>
  <Items>
    <CachePolicySummary>
      <CachePolicy>
        <CachePolicyConfig>
          <Comment>string</Comment>
          <DefaultTTL>long</DefaultTTL>
          <MaxTTL>long</MaxTTL>
          <MinTTL>long</MinTTL>
          <Name>string</Name>
          <ParametersInCacheKeyAndForwardedToOrigin>
            <CookiesConfig>
              <CookieBehavior>string</CookieBehavior>
              <Cookies>
                <Items>
                  <Name>string</Name>
                </Items>
                <Quantity>integer</Quantity>
              </Cookies>
            </CookiesConfig>
            <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
            <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
            <HeadersConfig>
              <HeaderBehavior>string</HeaderBehavior>
              <Headers>
                <Items>
                  <Name>string</Name>
                </Items>
                <Quantity>integer</Quantity>
              </Headers>
            </HeadersConfig>
            <QueryStringConfig>
              <QueryStringBehavior>string</QueryStringBehavior>
              <QueryStrings>
                <Items>
                  <Name>string</Name>
                </Items>
                <Quantity>integer</Quantity>
              </QueryStrings>
            </QueryStringConfig>
          </ParametersInCacheKeyAndForwardedToOrigin>
        </CachePolicyConfig>
      </CachePolicy>
    </CachePolicySummary>
  </Items>
</CachePolicyList>

```



```
        </QueryStringConfig>
        </ParametersInCacheKeyAndForwardedToOrigin>
    </CachePolicyConfig>
    <Id>string</Id>
    <LastModifiedTime>timestamp</LastModifiedTime>
</CachePolicy>
<Type>string</Type>
</CachePolicySummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</CachePolicyList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### CachePolicyList

Root level tag for the CachePolicyList parameters.

Required: Yes

### Items

Contains the cache policies in the list.

Type: Array of [CachePolicySummary](#) objects

### MaxItems

The maximum number of cache policies requested.

Type: Integer

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the Marker field of a subsequent request to continue listing cache policies where you left off.

Type: String

## **Quantity**

The total number of cache policies returned in the response.

Type: Integer

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCloudFrontOriginAccessIdentities

Service: Amazon CloudFront

Lists origin access identities.

## Request Syntax

```
GET /2020-05-31/origin-access-identity/cloudfront?Marker=Marker&MaxItems=MaxItems
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [Marker](#)

Use this when paginating results to indicate where to begin in your list of origin access identities. The results include identities in the list that occur after the marker. To get the next page of results, set the `Marker` to the value of the `NextMarker` from the current page's response (which is also the ID of the last identity on that page).

### [MaxItems](#)

The maximum number of origin access identities you want in the response body.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentityList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <CloudFrontOriginAccessIdentitySummary>
      <Comment>string</Comment>
      <Id>string</Id>
      <S3CanonicalUserId>string</S3CanonicalUserId>
```

```
</CloudFrontOriginAccessIdentitySummary>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</CloudFrontOriginAccessIdentityList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [CloudFrontOriginAccessIdentityList](#)

Root level tag for the CloudFrontOriginAccessIdentityList parameters.

Required: Yes

### [IsTruncated](#)

A flag that indicates whether more origin access identities remain to be listed. If your results were truncated, you can make a follow-up pagination request using the Marker request parameter to retrieve more items in the list.

Type: Boolean

### [Items](#)

A complex type that contains one CloudFrontOriginAccessIdentitySummary element for each origin access identity that was created by the current AWS account.

Type: Array of [CloudFrontOriginAccessIdentitySummary](#) objects

### [Marker](#)

Use this when paginating results to indicate where to begin in your list of origin access identities. The results include identities in the list that occur after the marker. To get the next page of results, set the Marker to the value of the NextMarker from the current page's response (which is also the ID of the last identity on that page).

Type: String

## MaxItems

The maximum number of origin access identities you want in the response body.

Type: Integer

## NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your origin access identities where they left off.

Type: String

## Quantity

The number of CloudFront origin access identities that were created by the current AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConflictingAliases

Service: Amazon CloudFront

Gets a list of aliases (also called CNAMEs or alternate domain names) that conflict or overlap with the provided alias, and the associated CloudFront distributions and AWS accounts for each conflicting alias. In the returned list, the distribution and account IDs are partially hidden, which allows you to identify the distributions and accounts that you own, but helps to protect the information of ones that you don't own.

Use this operation to find aliases that are in use in CloudFront that conflict or overlap with the provided alias. For example, if you provide `www.example.com` as input, the returned list can include `www.example.com` and the overlapping wildcard alternate domain name (`*.example.com`), if they exist. If you provide `*.example.com` as input, the returned list can include `*.example.com` and any alternate domain names covered by that wildcard (for example, `www.example.com`, `test.example.com`, `dev.example.com`, and so on), if they exist.

To list conflicting aliases, you provide the alias to search and the ID of a distribution in your account that has an attached SSL/TLS certificate that includes the provided alias. For more information, including how to set up the distribution and certificate, see [Moving an alternate domain name to a different distribution](#) in the *Amazon CloudFront Developer Guide*.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/conflicting-alias?  
Alias=Alias&DistributionId=DistributionId&Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Alias

The alias (also called a CNAME) to search for conflicting aliases.

Length Constraints: Minimum length of 0. Maximum length of 253.



Required: Yes

### DistributionId

The ID of a distribution in your account that has an attached SSL/TLS certificate that includes the provided alias.

Length Constraints: Minimum length of 0. Maximum length of 25.

Required: Yes

### Marker

Use this field when paginating results to indicate where to begin in the list of conflicting aliases. The response includes conflicting aliases in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of conflicting aliases that you want in the response.

Valid Range: Maximum value of 100.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ConflictingAliasesList>
  <Items>
    <ConflictingAlias>
      <AccountId>string</AccountId>
      <Alias>string</Alias>
      <DistributionId>string</DistributionId>
    </ConflictingAlias>
  </Items>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
```

```
</ConflictingAliasesList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### ConflictingAliasesList

Root level tag for the ConflictingAliasesList parameters.

Required: Yes

### Items

Contains the conflicting aliases in the list.

Type: Array of [ConflictingAlias](#) objects

### MaxItems

The maximum number of conflicting aliases requested.

Type: Integer

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing conflicting aliases where you left off.

Type: String

### Quantity

The number of conflicting aliases returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListContinuousDeploymentPolicies

Service: Amazon CloudFront

Gets a list of the continuous deployment policies in your AWS account.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/continuous-deployment-policy?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of continuous deployment policies. The response includes policies in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of continuous deployment policies that you want returned in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicyList>
  <Items>
```

```

<ContinuousDeploymentPolicySummary>
  <ContinuousDeploymentPolicy>
    <ContinuousDeploymentPolicyConfig>
      <Enabled>boolean</Enabled>
      <StagingDistributionDnsNames>
        <Items>
          <DnsName>string</DnsName>
        </Items>
      <Quantity>integer</Quantity>
    </StagingDistributionDnsNames>
    <TrafficConfig>
      <SingleHeaderConfig>
        <Header>string</Header>
        <Value>string</Value>
      </SingleHeaderConfig>
      <SingleWeightConfig>
        <SessionStickinessConfig>
          <IdleTTL>integer</IdleTTL>
          <MaximumTTL>integer</MaximumTTL>
        </SessionStickinessConfig>
        <Weight>float</Weight>
      </SingleWeightConfig>
      <Type>string</Type>
    </TrafficConfig>
  </ContinuousDeploymentPolicyConfig>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
</ContinuousDeploymentPolicy>
</ContinuousDeploymentPolicySummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</ContinuousDeploymentPolicyList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### ContinuousDeploymentPolicyList

Root level tag for the ContinuousDeploymentPolicyList parameters.

Required: Yes

### Items

A list of continuous deployment policy items.

Type: Array of [ContinuousDeploymentPolicySummary](#) objects

### MaxItems

The maximum number of continuous deployment policies that were specified in your request.

Type: Integer

### NextMarker

Indicates the next page of continuous deployment policies. To get the next page of the list, use this value in the `Marker` field of your request.

Type: String

### Quantity

The total number of continuous deployment policies in your AWS account, regardless of the `MaxItems` value.

Type: Integer

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchContinuousDeploymentPolicy**

The continuous deployment policy doesn't exist.

## HTTP Status Code: 404

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributions

Service: Amazon CloudFront

List CloudFront distributions.

## Request Syntax

```
GET /2020-05-31/distribution?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this when paginating results to indicate where to begin in your list of distributions. The results include distributions in the list that occur after the marker. To get the next page of results, set the `Marker` to the value of the `NextMarker` from the current page's response (which is also the ID of the last distribution on that page).

### MaxItems

The maximum number of distributions you want in the response body.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionSummary>
      <Aliases>
        <Items>
          <CNAME>string</CNAME>
        </Items>
      <Quantity>integer</Quantity>
    </Aliases>
  </Items>
</DistributionList>
```



```

<AliasICPRecordals>
  <AliasICPRecordal>
    <CNAME>string</CNAME>
    <ICPRecordalStatus>string</ICPRecordalStatus>
  </AliasICPRecordal>
</AliasICPRecordals>
<AnycastIpListId>string</AnycastIpListId>
<ARN>string</ARN>
<CacheBehaviors>
  <Items>
    <CacheBehavior>
      <AllowedMethods>
        <CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </CachedMethods>
        <Items>
          <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
      </AllowedMethods>
      <CachePolicyId>string</CachePolicyId>
      <Compress>boolean</Compress>
      <DefaultTTL>long</DefaultTTL>
      <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
      <ForwardedValues>
        <Cookies>
          <Forward>string</Forward>
          <WhitelistedNames>
            <Items>
              <Name>string</Name>
            </Items>
            <Quantity>integer</Quantity>
          </WhitelistedNames>
        </Cookies>
        <Headers>
          <Items>
            <Name>string</Name>
          </Items>
          <Quantity>integer</Quantity>
        </Headers>
        <QueryString>boolean</QueryString>
      </ForwardedValues>
    </CacheBehavior>
  </Items>
</CacheBehaviors>

```

```

<QueryStringCacheKeys>
  <Items>
    <Name>string</Name>
  </Items>
  <Quantity>integer</Quantity>
</QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>

```

```

    <TrustedSigners>
      <Enabled>boolean</Enabled>
      <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
      </Items>
      <Quantity>integer</Quantity>
    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
  </CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<Comment>string</Comment>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </CachedMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>

```

```

    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>

```

```

<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DomainName>string</DomainName>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<Id>string</Id>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<LastModifiedTime>timestamp</LastModifiedTime>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>

```

```

        </OriginGroupMember>
    </Items>
    <Quantity>integer</Quantity>
</Members>
<SelectionCriteria>string</SelectionCriteria>
</OriginGroup>
</Items>
<Quantity>integer</Quantity>
</OriginGroups>
<Origins>
    <Items>
        <Origin>
            <ConnectionAttempts>integer</ConnectionAttempts>
            <ConnectionTimeout>integer</ConnectionTimeout>
            <CustomHeaders>
                <Items>
                    <OriginCustomHeader>
                        <HeaderName>string</HeaderName>
                        <HeaderValue>string</HeaderValue>
                    </OriginCustomHeader>
                </Items>
                <Quantity>integer</Quantity>
            </CustomHeaders>
            <CustomOriginConfig>
                <HTTPPort>integer</HTTPPort>
                <HTTPSPort>integer</HTTPSPort>
                <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
                <OriginProtocolPolicy>string</OriginProtocolPolicy>
                <OriginReadTimeout>integer</OriginReadTimeout>
                <OriginSslProtocols>
                    <Items>
                        <SslProtocol>string</SslProtocol>
                    </Items>
                    <Quantity>integer</Quantity>
                </OriginSslProtocols>
            </CustomOriginConfig>
            <DomainName>string</DomainName>
            <Id>string</Id>
            <OriginAccessControlId>string</OriginAccessControlId>
            <OriginPath>string</OriginPath>
            <OriginShield>
                <Enabled>boolean</Enabled>
                <OriginShieldRegion>string</OriginShieldRegion>
            </OriginShield>
        </Origin>
    </Items>

```

```

    <S3OriginConfig>
      <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3OriginConfig>
    <VpcOriginConfig>
      <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
      <OriginReadTimeout>integer</OriginReadTimeout>
      <VpcOriginId>string</VpcOriginId>
    </VpcOriginConfig>
  </Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<Status>string</Status>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionSummary>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</DistributionList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionList

Root level tag for the `DistributionList` parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more distributions in the list.

Type: Boolean

### Items

A complex type that contains one `DistributionSummary` element for each distribution that was created by the current AWS account.

Type: Array of [DistributionSummary](#) objects

### Marker

The value you provided for the `Marker` request parameter.

Type: String

### MaxItems

The value you provided for the `MaxItems` request parameter.

Type: Integer

### NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your distributions where they left off.

Type: String



## **Quantity**

The number of distributions that were created by the current AWS account.

Type: Integer

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributionsByAnycastIpListId

Service: Amazon CloudFront

Lists the distributions in your account that are associated with the specified `AnycastIpListId`.

## Request Syntax

```
GET /2020-05-31/distributionsByAnycastIpListId/AnycastIpListId?  
Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [AnycastIpListId](#)

The ID of the Anycast static IP list.

Required: Yes

### [Marker](#)

Use this field when paginating results to indicate where to begin in your list. The response includes items in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### [MaxItems](#)

The maximum number of distributions that you want returned in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
<?xml version="1.0" encoding="UTF-8"?>  
<DistributionList>  
  <IsTruncated>boolean</IsTruncated>  
  <Items>  
    <DistributionSummary>  
      <Aliases>
```

```

    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AliasICPRecordals>
    <AliasICPRecordal>
      <CNAME>string</CNAME>
      <ICPRecordalStatus>string</ICPRecordalStatus>
    </AliasICPRecordal>
  </AliasICPRecordals>
  <AnycastIpListId>string</AnycastIpListId>
  <ARN>string</ARN>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
          </CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </AllowedMethods>
        <CachePolicyId>string</CachePolicyId>
        <Compress>boolean</Compress>
        <DefaultTTL>long</DefaultTTL>
        <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
        <ForwardedValues>
          <Cookies>
            <Forward>string</Forward>
            <WhitelistedNames>
              <Items>
                <Name>string</Name>
              </Items>
              <Quantity>integer</Quantity>
            </WhitelistedNames>
          </Cookies>
          <Headers>
            <Items>

```

```

        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
  </ForwardedValues>
  <FunctionAssociations>
    <Items>
      <FunctionAssociation>
        <EventType>string</EventType>
        <FunctionARN>string</FunctionARN>
      </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>
  <LambdaFunctionAssociations>
    <Items>
      <LambdaFunctionAssociation>
        <EventType>string</EventType>
        <IncludeBody>boolean</IncludeBody>
        <LambdaFunctionARN>string</LambdaFunctionARN>
      </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </LambdaFunctionAssociations>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <OriginRequestPolicyId>string</OriginRequestPolicyId>
  <PathPattern>string</PathPattern>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
    <Enabled>boolean</Enabled>

```

```

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```

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```

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```

```

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```



```

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</DistributionSummary>
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<NextMarker>string</NextMarker>

```

```
<Quantity>integer</Quantity>  
</DistributionList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionList

Root level tag for the DistributionList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the Marker request parameter to retrieve more distributions in the list.

Type: Boolean

### Items

A complex type that contains one DistributionSummary element for each distribution that was created by the current AWS account.

Type: Array of [DistributionSummary](#) objects

### Marker

The value you provided for the Marker request parameter.

Type: String

### MaxItems

The value you provided for the MaxItems request parameter.

Type: Integer

### NextMarker

If IsTruncated is true, this element is present and contains the value you can use for the Marker request parameter to continue listing your distributions where they left off.

Type: String

### Quantity

The number of distributions that were created by the current AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributionsByCachePolicyId

Service: Amazon CloudFront

Gets a list of distribution IDs for distributions that have a cache behavior that's associated with the specified cache policy.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/distributionsByCachePolicyId/CachePolicyId?  
Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### CachePolicyId

The ID of the cache policy whose associated distribution IDs you want to list.

Required: Yes

### Marker

Use this field when paginating results to indicate where to begin in your list of distribution IDs. The response includes distribution IDs in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of distribution IDs that you want in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionIdList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionId>string</DistributionId>
  </Items>
  <Marker>string</Marker>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
</DistributionIdList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionIdList

Root level tag for the DistributionIdList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distribution IDs remain to be listed. If your results were truncated, you can make a subsequent request using the Marker request field to retrieve more distribution IDs in the list.

Type: Boolean

### Items

Contains the distribution IDs in the list.

Type: Array of strings

### Marker

The value provided in the Marker request field.

Type: String

### **MaxItems**

The maximum number of distribution IDs requested.

Type: Integer

### **NextMarker**

Contains the value that you should use in the `Marker` field of a subsequent request to continue listing distribution IDs where you left off.

Type: String

### **Quantity**

The total number of distribution IDs returned in the response.

Type: Integer

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListDistributionsByKeyGroup

Service: Amazon CloudFront

Gets a list of distribution IDs for distributions that have a cache behavior that references the specified key group.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/distributionsByKeyGroupId/KeyGroupId?Marker=Marker&MaxItems=MaxItems
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### KeyGroupId

The ID of the key group whose associated distribution IDs you are listing.

Required: Yes

### Marker

Use this field when paginating results to indicate where to begin in your list of distribution IDs. The response includes distribution IDs in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of distribution IDs that you want in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionIdList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionId>string</DistributionId>
  </Items>
  <Marker>string</Marker>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
</DistributionIdList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionIdList

Root level tag for the DistributionIdList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distribution IDs remain to be listed. If your results were truncated, you can make a subsequent request using the Marker request field to retrieve more distribution IDs in the list.

Type: Boolean

### Items

Contains the distribution IDs in the list.

Type: Array of strings

### Marker

The value provided in the Marker request field.

Type: String

### MaxItems

The maximum number of distribution IDs requested.

Type: Integer

### NextMarker

Contains the value that you should use in the `Marker` field of a subsequent request to continue listing distribution IDs where you left off.

Type: String

### Quantity

The total number of distribution IDs returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchResource**

A resource that was specified is not valid.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributionsByOriginRequestId

Service: Amazon CloudFront

Gets a list of distribution IDs for distributions that have a cache behavior that's associated with the specified origin request policy.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/distributionsByOriginRequestId/OriginRequestId?  
Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of distribution IDs. The response includes distribution IDs in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of distribution IDs that you want in the response.

### OriginRequestId

The ID of the origin request policy whose associated distribution IDs you want to list.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionIdList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionId>string</DistributionId>
  </Items>
  <Marker>string</Marker>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
</DistributionIdList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionIdList

Root level tag for the DistributionIdList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distribution IDs remain to be listed. If your results were truncated, you can make a subsequent request using the Marker request field to retrieve more distribution IDs in the list.

Type: Boolean

### Items

Contains the distribution IDs in the list.

Type: Array of strings

### Marker

The value provided in the Marker request field.

Type: String

### **MaxItems**

The maximum number of distribution IDs requested.

Type: Integer

### **NextMarker**

Contains the value that you should use in the `Marker` field of a subsequent request to continue listing distribution IDs where you left off.

Type: String

### **Quantity**

The total number of distribution IDs returned in the response.

Type: Integer

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListDistributionsByRealtimeLogConfig

Service: Amazon CloudFront

Gets a list of distributions that have a cache behavior that's associated with the specified real-time log configuration.

You can specify the real-time log configuration by its name or its Amazon Resource Name (ARN). You must provide at least one. If you provide both, CloudFront uses the name to identify the real-time log configuration to list distributions for.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
POST /2020-05-31/distributionsByRealtimeLogConfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ListDistributionsByRealtimeLogConfigRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Marker>string</Marker>
  <MaxItems>string</MaxItems>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <RealtimeLogConfigName>string</RealtimeLogConfigName>
</ListDistributionsByRealtimeLogConfigRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [ListDistributionsByRealtimeLogConfigRequest](#)

Root level tag for the `ListDistributionsByRealtimeLogConfigRequest` parameters.

Required: Yes

## Marker

Use this field when paginating results to indicate where to begin in your list of distributions. The response includes distributions in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

Type: String

Required: No

## MaxItems

The maximum number of distributions that you want in the response.

Type: String

Required: No

## RealtimeLogConfigArn

The Amazon Resource Name (ARN) of the real-time log configuration whose associated distributions you want to list.

Type: String

Required: No

## RealtimeLogConfigName

The name of the real-time log configuration whose associated distributions you want to list.

Type: String

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionSummary>
      <Aliases>
        <Items>
          <CNAME>string</CNAME>
```

```

    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
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    <AliasICPRecordal>
      <CNAME>string</CNAME>
      <ICPRecordalStatus>string</ICPRecordalStatus>
    </AliasICPRecordal>
  </AliasICPRecordals>
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  <ARN>string</ARN>
  <CacheBehaviors>
    <Items>
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            </Items>
            <Quantity>integer</Quantity>
          </CachedMethods>
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        </AllowedMethods>
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        <Compress>boolean</Compress>
        <DefaultTTL>long</DefaultTTL>
        <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
        <ForwardedValues>
          <Cookies>
            <Forward>string</Forward>
            <WhitelistedNames>
              <Items>
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              </Items>
              <Quantity>integer</Quantity>
            </WhitelistedNames>
          </Cookies>
          <Headers>
            <Items>
              <Name>string</Name>
            </Items>
          </Headers>
        </ForwardedValues>
      </CacheBehavior>
    </Items>
  </CacheBehaviors>

```

```

    <Quantity>integer</Quantity>
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      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
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<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>

```

```

        </Items>
        <Quantity>integer</Quantity>
    </TrustedKeyGroups>
    <TrustedSigners>
        <Enabled>boolean</Enabled>
        <Items>
            <AwsAccountNumber>string</AwsAccountNumber>
        </Items>
        <Quantity>integer</Quantity>
    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<Comment>string</Comment>
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    <Items>
        <CustomErrorResponse>
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        </CustomErrorResponse>
    </Items>
    <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
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        </Items>
        <Quantity>integer</Quantity>
    </AllowedMethods>
    <CachePolicyId>string</CachePolicyId>
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    <DefaultTTL>long</DefaultTTL>
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```

```

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</Cookies>
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  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
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</GrpcConfig>
<LambdaFunctionAssociations>
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    <LambdaFunctionAssociation>
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      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>

```

```

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  <MinTTL>long</MinTTL>
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  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
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    <Items>
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    </Items>
    <Quantity>integer</Quantity>
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  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
  <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DomainName>string</DomainName>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<Id>string</Id>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<LastModifiedTime>timestamp</LastModifiedTime>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>

```

```

    <Items>
      <OriginGroupMember>
        <OriginId>string</OriginId>
      </OriginGroupMember>
    </Items>
    <Quantity>integer</Quantity>
  </Members>
  <SelectionCriteria>string</SelectionCriteria>
</OriginGroup>
</Items>
<Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
        <HTTPSPort>integer</HTTPSPort>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginProtocolPolicy>string</OriginProtocolPolicy>
        <OriginReadTimeout>integer</OriginReadTimeout>
        <OriginSslProtocols>
          <Items>
            <SslProtocol>string</SslProtocol>
          </Items>
          <Quantity>integer</Quantity>
        </OriginSslProtocols>
      </CustomOriginConfig>
      <DomainName>string</DomainName>
      <Id>string</Id>
      <OriginAccessControlId>string</OriginAccessControlId>
      <OriginPath>string</OriginPath>
      <OriginShield>

```



```

        <Enabled>boolean</Enabled>
        <OriginShieldRegion>string</OriginShieldRegion>
    </OriginShield>
    <S3OriginConfig>
        <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3OriginConfig>
    <VpcOriginConfig>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginReadTimeout>integer</OriginReadTimeout>
        <VpcOriginId>string</VpcOriginId>
    </VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
    <GeoRestriction>
        <Items>
            <Location>string</Location>
        </Items>
        <Quantity>integer</Quantity>
        <RestrictionType>string</RestrictionType>
    </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<Status>string</Status>
<ViewerCertificate>
    <ACMCertificateArn>string</ACMCertificateArn>
    <Certificate>string</Certificate>
    <CertificateSource>string</CertificateSource>
    <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
    <IAMCertificateId>string</IAMCertificateId>
    <MinimumProtocolVersion>string</MinimumProtocolVersion>
    <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
<WebACLId>string</WebACLId>
</DistributionSummary>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>

```

```
</DistributionList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionList

Root level tag for the `DistributionList` parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more distributions in the list.

Type: Boolean

### Items

A complex type that contains one `DistributionSummary` element for each distribution that was created by the current AWS account.

Type: Array of [DistributionSummary](#) objects

### Marker

The value you provided for the `Marker` request parameter.

Type: String

### MaxItems

The value you provided for the `MaxItems` request parameter.

Type: Integer

### NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your distributions where they left off.

Type: String

### Quantity

The number of distributions that were created by the current AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributionsByResponseHeadersPolicyId

Service: Amazon CloudFront

Gets a list of distribution IDs for distributions that have a cache behavior that's associated with the specified response headers policy.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/distributionsByResponseHeadersPolicyId/ResponseHeadersPolicyId?  
Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of distribution IDs. The response includes distribution IDs in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of distribution IDs that you want to get in the response.

### ResponseHeadersPolicyId

The ID of the response headers policy whose associated distribution IDs you want to list.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionIdList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionId>string</DistributionId>
  </Items>
  <Marker>string</Marker>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
</DistributionIdList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionIdList

Root level tag for the DistributionIdList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distribution IDs remain to be listed. If your results were truncated, you can make a subsequent request using the Marker request field to retrieve more distribution IDs in the list.

Type: Boolean

### Items

Contains the distribution IDs in the list.

Type: Array of strings

### Marker

The value provided in the Marker request field.

Type: String

## MaxItems

The maximum number of distribution IDs requested.

Type: Integer

## NextMarker

Contains the value that you should use in the `Marker` field of a subsequent request to continue listing distribution IDs where you left off.

Type: String

## Quantity

The total number of distribution IDs returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributionsByVpcOriginId

Service: Amazon CloudFront

List CloudFront distributions by their VPC origin ID.

## Request Syntax

```
GET /2020-05-31/distributionsByVpcOriginId/VpcOriginId?Marker=Marker&MaxItems=MaxItems
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [Marker](#)

The marker associated with the VPC origin distributions list.

### [MaxItems](#)

The maximum number of items included in the list.

### [VpcOriginId](#)

The VPC origin ID.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionIdList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionId>string</DistributionId>
  </Items>
  <Marker>string</Marker>
  <MaxItems>integer</MaxItems>
```



```
<NextMarker>string</NextMarker>  
<Quantity>integer</Quantity>  
</DistributionIdList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionIdList

Root level tag for the DistributionIdList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distribution IDs remain to be listed. If your results were truncated, you can make a subsequent request using the Marker request field to retrieve more distribution IDs in the list.

Type: Boolean

### Items

Contains the distribution IDs in the list.

Type: Array of strings

### Marker

The value provided in the Marker request field.

Type: String

### MaxItems

The maximum number of distribution IDs requested.

Type: Integer

### NextMarker

Contains the value that you should use in the Marker field of a subsequent request to continue listing distribution IDs where you left off.

Type: String

### Quantity

The total number of distribution IDs returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributionsByWebACLId

Service: Amazon CloudFront

List the distributions that are associated with a specified AWS WAF web ACL.

## Request Syntax

```
GET /2020-05-31/distributionsByWebACLId/WebACLId?Marker=Marker&MaxItems=MaxItems
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use `Marker` and `MaxItems` to control pagination of results. If you have more than `MaxItems` distributions that satisfy the request, the response includes a `NextMarker` element. To get the next page of results, submit another request. For the value of `Marker`, specify the value of `NextMarker` from the last response. (For the first request, omit `Marker`.)

### MaxItems

The maximum number of distributions that you want CloudFront to return in the response body. The maximum and default values are both 100.

### WebACLId

The ID of the AWS WAF web ACL that you want to list the associated distributions. If you specify "null" for the ID, the request returns a list of the distributions that aren't associated with a web ACL.

For AWS WAFV2, this is the ARN of the web ACL, such as `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`.

For AWS WAF Classic, this is the ID of the web ACL, such as `a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DistributionList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <DistributionSummary>
      <Aliases>
        <Items>
          <CNAME>string</CNAME>
        </Items>
        <Quantity>integer</Quantity>
      </Aliases>
      <AliasICPRecordals>
        <AliasICPRecordal>
          <CNAME>string</CNAME>
          <ICPRecordalStatus>string</ICPRecordalStatus>
        </AliasICPRecordal>
      </AliasICPRecordals>
      <AnycastIpListId>string</AnycastIpListId>
      <ARN>string</ARN>
      <CacheBehaviors>
        <Items>
          <CacheBehavior>
            <AllowedMethods>
              <CachedMethods>
                <Items>
                  <Method>string</Method>
                </Items>
                <Quantity>integer</Quantity>
              </CachedMethods>
              <Items>
                <Method>string</Method>
              </Items>
              <Quantity>integer</Quantity>
            </AllowedMethods>
            <CachePolicyId>string</CachePolicyId>
            <Compress>boolean</Compress>
          </CacheBehavior>
        </Items>
      </CacheBehaviors>
    </DistributionSummary>
  </Items>
</DistributionList>

```

```

<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>

```

```

        </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
        <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<Comment>string</Comment>
<CustomErrorResponses>
    <Items>
        <CustomErrorResponse>
            <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
            <ErrorCode>integer</ErrorCode>
            <ResponseCode>string</ResponseCode>
            <ResponsePagePath>string</ResponsePagePath>
        </CustomErrorResponse>
    </Items>
    <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>

```

```

<AllowedMethods>
  <CachedMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </CachedMethods>
  <Items>
    <Method>string</Method>
  </Items>
  <Quantity>integer</Quantity>
</AllowedMethods>
<CachePolicyId>string</CachePolicyId>
<Compress>boolean</Compress>
<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
    </FunctionAssociation>
  </Items>
</FunctionAssociations>

```



```

        <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
</Items>
    <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
    <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
    <Items>
        <LambdaFunctionAssociation>
            <EventType>string</EventType>
            <IncludeBody>boolean</IncludeBody>
            <LambdaFunctionARN>string</LambdaFunctionARN>
        </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
        <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
        <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DomainName>string</DomainName>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>

```

```

<Id>string</Id>
<IsIPv6Enabled>boolean</IsIPv6Enabled>
<LastModifiedTime>timestamp</LastModifiedTime>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>
          </OriginGroupMember>
        </Items>
        <Quantity>integer</Quantity>
      </Members>
      <SelectionCriteria>string</SelectionCriteria>
    </OriginGroup>
  </Items>
  <Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
      </CustomOriginConfig>
    </Origin>
  </Items>
  <Quantity>integer</Quantity>
</Origins>

```

```

    <HTTPSPort>integer</HTTPSPort>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </CustomOriginConfig>
  <DomainName>string</DomainName>
  <Id>string</Id>
  <OriginAccessControlId>string</OriginAccessControlId>
  <OriginPath>string</OriginPath>
  <OriginShield>
    <Enabled>boolean</Enabled>
    <OriginShieldRegion>string</OriginShieldRegion>
  </OriginShield>
  <S3OriginConfig>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3OriginConfig>
  <VpcOriginConfig>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <VpcOriginId>string</VpcOriginId>
  </VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<Status>string</Status>
<ViewerCertificate>

```

```

    <ACMCertificateArn>string</ACMCertificateArn>
    <Certificate>string</Certificate>
    <CertificateSource>string</CertificateSource>
    <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
    <IAMCertificateId>string</IAMCertificateId>
    <MinimumProtocolVersion>string</MinimumProtocolVersion>
    <SSLSupportMethod>string</SSLSupportMethod>
  </ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionSummary>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</DistributionList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### DistributionList

Root level tag for the DistributionList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the Marker request parameter to retrieve more distributions in the list.

Type: Boolean

### Items

A complex type that contains one DistributionSummary element for each distribution that was created by the current AWS account.

Type: Array of [DistributionSummary](#) objects

## Marker

The value you provided for the `Marker` request parameter.

Type: String

## MaxItems

The value you provided for the `MaxItems` request parameter.

Type: Integer

## NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your distributions where they left off.

Type: String

## Quantity

The number of distributions that were created by the current AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### InvalidWebACLId

A web ACL ID specified is not valid. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/473e64fd-f30b-4765-81a0-62ad96dd167a`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `473e64fd-f30b-4765-81a0-62ad96dd167a`.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListFieldLevelEncryptionConfigs

Service: Amazon CloudFront

List all field-level encryption configurations that have been created in CloudFront for this account.

## Request Syntax

```
GET /2020-05-31/field-level-encryption?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this when paginating results to indicate where to begin in your list of configurations. The results include configurations in the list that occur after the marker. To get the next page of results, set the `Marker` to the value of the `NextMarker` from the current page's response (which is also the ID of the last configuration on that page).

### MaxItems

The maximum number of field-level encryption configurations you want in the response body.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionList>
  <Items>
    <FieldLevelEncryptionSummary>
      <Comment>string</Comment>
      <ContentTypeProfileConfig>
        <ContentTypeProfiles>
          <Items>
            <ContentTypeProfile>
              <ContentType>string</ContentType>
              <Format>string</Format>
```

```

        <ProfileId>string</ProfileId>
    </ContentTypeProfile>
</Items>
    <Quantity>integer</Quantity>
</ContentTypeProfiles>
    <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
</ContentTypeProfileConfig>
    <Id>string</Id>
    <LastModifiedTime>timestamp</LastModifiedTime>
    <QueryArgProfileConfig>

<ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
    <QueryArgProfiles>
        <Items>
            <QueryArgProfile>
                <ProfileId>string</ProfileId>
                <QueryArg>string</QueryArg>
            </QueryArgProfile>
        </Items>
        <Quantity>integer</Quantity>
    </QueryArgProfiles>
</QueryArgProfileConfig>
</FieldLevelEncryptionSummary>
</Items>
    <MaxItems>integer</MaxItems>
    <NextMarker>string</NextMarker>
    <Quantity>integer</Quantity>
</FieldLevelEncryptionList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FieldLevelEncryptionList

Root level tag for the FieldLevelEncryptionList parameters.

Required: Yes

### Items

An array of field-level encryption items.



Type: Array of [FieldLevelEncryptionSummary](#) objects

### MaxItems

The maximum number of elements you want in the response body.

Type: Integer

### NextMarker

If there are more elements to be listed, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your configurations where you left off.

Type: String

### Quantity

The number of field-level encryption items.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListFieldLevelEncryptionProfiles

Service: Amazon CloudFront

Request a list of field-level encryption profiles that have been created in CloudFront for this account.

## Request Syntax

```
GET /2020-05-31/field-level-encryption-profile?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this when paginating results to indicate where to begin in your list of profiles. The results include profiles in the list that occur after the marker. To get the next page of results, set the `Marker` to the value of the `NextMarker` from the current page's response (which is also the ID of the last profile on that page).

### MaxItems

The maximum number of field-level encryption profiles you want in the response body.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfileList>
  <Items>
    <FieldLevelEncryptionProfileSummary>
      <Comment>string</Comment>
      <EncryptionEntities>
        <Items>
          <EncryptionEntity>
            <FieldPatterns>
```

```

        <Items>
            <FieldPattern>string</FieldPattern>
        </Items>
        <Quantity>integer</Quantity>
    </FieldPatterns>
    <ProviderId>string</ProviderId>
    <PublicKeyId>string</PublicKeyId>
</EncryptionEntity>
</Items>
    <Quantity>integer</Quantity>
</EncryptionEntities>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
<Name>string</Name>
</FieldLevelEncryptionProfileSummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</FieldLevelEncryptionProfileList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [FieldLevelEncryptionProfileList](#)

Root level tag for the FieldLevelEncryptionProfileList parameters.

Required: Yes

#### [Items](#)

The field-level encryption profile items.

Type: Array of [FieldLevelEncryptionProfileSummary](#) objects

#### [MaxItems](#)

The maximum number of field-level encryption profiles you want in the response body.

Type: Integer

## NextMarker

If there are more elements to be listed, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your profiles where you left off.

Type: String

## Quantity

The number of field-level encryption profiles.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListFunctions

Service: Amazon CloudFront

Gets a list of all CloudFront functions in your AWS account.

You can optionally apply a filter to return only the functions that are in the specified stage, either `DEVELOPMENT` or `LIVE`.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/function?Marker=Marker&MaxItems=MaxItems&Stage=Stage HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of functions. The response includes functions in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of functions that you want in the response.

### Stage

An optional filter to return only the functions that are in the specified stage, either `DEVELOPMENT` or `LIVE`.

Valid Values: `DEVELOPMENT` | `LIVE`

## Request Body

The request does not have a request body.

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FunctionList>
  <Items>
    <FunctionSummary>
      <FunctionConfig>
        <Comment>string</Comment>
        <KeyValueStoreAssociations>
          <Items>
            <KeyValueStoreAssociation>
              <KeyValueStoreARN>string</KeyValueStoreARN>
            </KeyValueStoreAssociation>
          </Items>
          <Quantity>integer</Quantity>
        </KeyValueStoreAssociations>
        <Runtime>string</Runtime>
      </FunctionConfig>
      <FunctionMetadata>
        <CreatedTime>timestamp</CreatedTime>
        <FunctionARN>string</FunctionARN>
        <LastModifiedTime>timestamp</LastModifiedTime>
        <Stage>string</Stage>
      </FunctionMetadata>
      <Name>string</Name>
      <Status>string</Status>
    </FunctionSummary>
  </Items>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
</FunctionList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FunctionList

Root level tag for the FunctionList parameters.

Required: Yes

### Items

Contains the functions in the list.

Type: Array of [FunctionSummary](#) objects

### MaxItems

The maximum number of functions requested.

Type: Integer

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing functions where you left off.

Type: String

### Quantity

The number of functions returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400



## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListInvalidations

Service: Amazon CloudFront

Lists invalidation batches.

## Request Syntax

```
GET /2020-05-31/distribution/DistributionId/invalidation?
Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DistributionId

The distribution's ID.

Required: Yes

### Marker

Use this parameter when paginating results to indicate where to begin in your list of invalidation batches. Because the results are returned in decreasing order from most recent to oldest, the most recent results are on the first page, the second page will contain earlier results, and so on. To get the next page of results, set `Marker` to the value of the `NextMarker` from the current page's response. This value is the same as the ID of the last invalidation batch on that page.

### MaxItems

The maximum number of invalidation batches that you want in the response body.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<InvalidationList>
```

```
<IsTruncated>boolean</IsTruncated>
<Items>
  <InvalidationSummary>
    <CreateTime>timestamp</CreateTime>
    <Id>string</Id>
    <Status>string</Status>
  </InvalidationSummary>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</InvalidationList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### InvalidationList

Root level tag for the InvalidationList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more invalidation batch requests remain to be listed. If your results were truncated, you can make a follow-up pagination request using the Marker request parameter to retrieve more invalidation batches in the list.

Type: Boolean

### Items

A complex type that contains one InvalidationSummary element for each invalidation batch created by the current AWS account.

Type: Array of [InvalidationSummary](#) objects

### Marker

The value that you provided for the Marker request parameter.

Type: String

## MaxItems

The value that you provided for the `MaxItems` request parameter.

Type: Integer

## NextMarker

If `IsTruncated` is `true`, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your invalidation batches where they left off.

Type: String

## Quantity

The number of invalidation batches that were created by the current AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchDistribution**

The specified distribution does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListKeyGroups

Service: Amazon CloudFront

Gets a list of key groups.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/key-group?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of key groups. The response includes key groups in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of key groups that you want in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroupList>
  <Items>
    <KeyGroupSummary>
      <KeyGroup>
        <Id>string</Id>
```

```
<KeyGroupConfig>
  <Comment>string</Comment>
  <Items>
    <PublicKey>string</PublicKey>
  </Items>
  <Name>string</Name>
</KeyGroupConfig>
<LastModifiedTime>timestamp</LastModifiedTime>
</KeyGroup>
</KeyGroupSummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</KeyGroupList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [KeyGroupList](#)

Root level tag for the KeyGroupList parameters.

Required: Yes

### [Items](#)

A list of key groups.

Type: Array of [KeyGroupSummary](#) objects

### [MaxItems](#)

The maximum number of key groups requested.

Type: Integer

### [NextMarker](#)

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing key groups.

Type: String

### Quantity

The number of key groups returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListKeyValueStores

Service: Amazon CloudFront

Specifies the key value stores to list.

## Request Syntax

```
GET /2020-05-31/key-value-store?Marker=Marker&MaxItems=MaxItems&Status=Status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

The marker associated with the key value stores list.

### MaxItems

The maximum number of items in the key value stores list.

### Status

The status of the request for the key value stores list.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyValueStoreList>
  <Items>
    <KeyValueStore>
      <ARN>string</ARN>
      <Comment>string</Comment>
      <Id>string</Id>
      <LastModifiedTime>timestamp</LastModifiedTime>
      <Name>string</Name>
      <Status>string</Status>
```

```
</KeyValueStore>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</KeyValueStoreList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [KeyValueStoreList](#)

Root level tag for the KeyValueStoreList parameters.

Required: Yes

### [Items](#)

The items of the key value store list.

Type: Array of [KeyValueStore](#) objects

### [MaxItems](#)

The maximum number of items in the key value store list.

Type: Integer

### [NextMarker](#)

The next marker associated with the key value store list.

Type: String

### [Quantity](#)

The quantity of the key value store list.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDenied

Access denied.

HTTP Status Code: 403

## InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListOriginAccessControls

Service: Amazon CloudFront

Gets the list of CloudFront origin access controls (OACs) in this AWS account.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send another request that specifies the `NextMarker` value from the current response as the `Marker` value in the next request.

## Note

If you're not using origin access controls for your AWS account, the `ListOriginAccessControls` operation doesn't return the `Items` element in the response.

## Request Syntax

```
GET /2020-05-31/origin-access-control?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of origin access controls. The response includes the items in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of origin access controls that you want in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControlList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <OriginAccessControlSummary>
      <Description>string</Description>
      <Id>string</Id>
      <Name>string</Name>
      <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
      <SigningBehavior>string</SigningBehavior>
      <SigningProtocol>string</SigningProtocol>
    </OriginAccessControlSummary>
  </Items>
  <Marker>string</Marker>
  <MaxItems>integer</MaxItems>
  <NextMarker>string</NextMarker>
  <Quantity>integer</Quantity>
</OriginAccessControlList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginAccessControlList

Root level tag for the OriginAccessControlList parameters.

Required: Yes

### IsTruncated

If there are more items in the list than are in this response, this value is true.

Type: Boolean

### Items

Contains the origin access controls in the list.

Type: Array of [OriginAccessControlSummary](#) objects

## Marker

The value of the `Marker` field that was provided in the request.

Type: String

## MaxItems

The maximum number of origin access controls requested.

Type: Integer

## NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value to use in the `Marker` field of another request to continue listing origin access controls.

Type: String

## Quantity

The number of origin access controls returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListOriginRequestPolicies

Service: Amazon CloudFront

Gets a list of origin request policies.

You can optionally apply a filter to return only the managed policies created by AWS, or only the custom policies created in your AWS account.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/origin-request-policy?Marker=Marker&MaxItems=MaxItems&Type=Type
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of origin request policies. The response includes origin request policies in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of origin request policies that you want in the response.

### Type

A filter to return only the specified kinds of origin request policies. Valid values are:

- `managed` – Returns only the managed policies created by AWS.
- `custom` – Returns only the custom policies created in your AWS account.

Valid Values: `managed` | `custom`



## Request Body

The request does not have a request body.

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicyList>
  <Items>
    <OriginRequestPolicySummary>
      <OriginRequestPolicy>
        <Id>string</Id>
        <LastModifiedTime>timestamp</LastModifiedTime>
        <OriginRequestPolicyConfig>
          <Comment>string</Comment>
          <CookiesConfig>
            <CookieBehavior>string</CookieBehavior>
            <Cookies>
              <Items>
                <Name>string</Name>
              </Items>
              <Quantity>integer</Quantity>
            </Cookies>
          </CookiesConfig>
          <HeadersConfig>
            <HeaderBehavior>string</HeaderBehavior>
            <Headers>
              <Items>
                <Name>string</Name>
              </Items>
              <Quantity>integer</Quantity>
            </Headers>
          </HeadersConfig>
          <Name>string</Name>
          <QueryStringsConfig>
            <QueryStringBehavior>string</QueryStringBehavior>
            <QueryStrings>
              <Items>
                <Name>string</Name>
              </Items>
              <Quantity>integer</Quantity>
            </QueryStrings>
          </QueryStringsConfig>
        </OriginRequestPolicyConfig>
      </OriginRequestPolicy>
    </Items>
  </OriginRequestPolicySummary>
</OriginRequestPolicyList>

```

```
        </QueryStringConfig>
      </OriginRequestPolicyConfig>
    </OriginRequestPolicy>
    <Type>string</Type>
  </OriginRequestPolicySummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</OriginRequestPolicyList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginRequestPolicyList

Root level tag for the OriginRequestPolicyList parameters.

Required: Yes

### Items

Contains the origin request policies in the list.

Type: Array of [OriginRequestPolicySummary](#) objects

### MaxItems

The maximum number of origin request policies requested.

Type: Integer

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the Marker field of a subsequent request to continue listing origin request policies where you left off.

Type: String

### Quantity

The total number of origin request policies returned in the response.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListPublicKeys

Service: Amazon CloudFront

List all public keys that have been added to CloudFront for this account.

## Request Syntax

```
GET /2020-05-31/public-key?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this when paginating results to indicate where to begin in your list of public keys. The results include public keys in the list that occur after the marker. To get the next page of results, set the `Marker` to the value of the `NextMarker` from the current page's response (which is also the ID of the last public key on that page).

### MaxItems

The maximum number of public keys you want in the response body.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<PublicKeyList>
  <Items>
    <PublicKeySummary>
      <Comment>string</Comment>
      <CreatedTime>timestamp</CreatedTime>
      <EncodedKey>string</EncodedKey>
      <Id>string</Id>
      <Name>string</Name>
```

```
</PublicKeySummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</PublicKeyList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### PublicKeyList

Root level tag for the PublicKeyList parameters.

Required: Yes

### Items

A list of public keys.

Type: Array of [PublicKeySummary](#) objects

### MaxItems

The maximum number of public keys you want in the response.

Type: Integer

### NextMarker

If there are more elements to be listed, this element is present and contains the value that you can use for the Marker request parameter to continue listing your public keys where you left off.

Type: String

### Quantity

The number of public keys in the list.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListRealtimeLogConfigs

Service: Amazon CloudFront

Gets a list of real-time log configurations.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/realtime-log-config?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of real-time log configurations. The response includes real-time log configurations in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of real-time log configurations that you want in the response.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<RealtimeLogConfigs>
  <IsTruncated>boolean</IsTruncated>
  <Items>
```

```

<RealtimeLogConfig>
  <ARN>string</ARN>
  <EndPoints>
    <EndPoint>
      <KinesisStreamConfig>
        <RoleARN>string</RoleARN>
        <StreamARN>string</StreamARN>
      </KinesisStreamConfig>
      <StreamType>string</StreamType>
    </EndPoint>
  </EndPoints>
  <Fields>
    <Field>string</Field>
  </Fields>
  <Name>string</Name>
  <SamplingRate>long</SamplingRate>
</RealtimeLogConfig>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
</RealtimeLogConfigs>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### RealtimeLogConfigs

Root level tag for the RealtimeLogConfigs parameters.

Required: Yes

### IsTruncated

A flag that indicates whether there are more real-time log configurations than are contained in this list.

Type: Boolean

### Items

Contains the list of real-time log configurations.



Type: Array of [RealtimeLogConfig](#) objects

### **Marker**

This parameter indicates where this list of real-time log configurations begins. This list includes real-time log configurations that occur after the marker.

Type: String

### **MaxItems**

The maximum number of real-time log configurations requested.

Type: Integer

### **NextMarker**

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing real-time log configurations where you left off.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListResponseHeadersPolicies

Service: Amazon CloudFront

Gets a list of response headers policies.

You can optionally apply a filter to get only the managed policies created by AWS, or only the custom policies created in your AWS account.

You can optionally specify the maximum number of items to receive in the response. If the total number of items in the list exceeds the maximum that you specify, or the default maximum, the response is paginated. To get the next page of items, send a subsequent request that specifies the `NextMarker` value from the current response as the `Marker` value in the subsequent request.

## Request Syntax

```
GET /2020-05-31/response-headers-policy?Marker=Marker&MaxItems=MaxItems&Type=Type
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Marker

Use this field when paginating results to indicate where to begin in your list of response headers policies. The response includes response headers policies in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

### MaxItems

The maximum number of response headers policies that you want to get in the response.

### Type

A filter to get only the specified kind of response headers policies. Valid values are:

- `managed` – Gets only the managed policies created by AWS.
- `custom` – Gets only the custom policies created in your AWS account.

Valid Values: `managed` | `custom`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicyList>
  <Items>
    <ResponseHeadersPolicySummary>
      <ResponseHeadersPolicy>
        <Id>string</Id>
        <LastModifiedTime>timestamp</LastModifiedTime>
        <ResponseHeadersPolicyConfig>
          <Comment>string</Comment>
          <CorsConfig>

<AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
  <AccessControlAllowHeaders>
    <Items>
      <Header>string</Header>
    </Items>
    <Quantity>integer</Quantity>
  </AccessControlAllowHeaders>
  <AccessControlAllowMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AccessControlAllowMethods>
  <AccessControlAllowOrigins>
    <Items>
      <Origin>string</Origin>
    </Items>
    <Quantity>integer</Quantity>
  </AccessControlAllowOrigins>
  <AccessControlExposeHeaders>
    <Items>
      <Header>string</Header>
    </Items>
    <Quantity>integer</Quantity>
  </AccessControlExposeHeaders>
```

```

    <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
    <OriginOverride>boolean</OriginOverride>
  </CorsConfig>
  <CustomHeadersConfig>
    <Items>
      <ResponseHeadersPolicyCustomHeader>
        <Header>string</Header>
        <Override>boolean</Override>
        <Value>string</Value>
      </ResponseHeadersPolicyCustomHeader>
    </Items>
    <Quantity>integer</Quantity>
  </CustomHeadersConfig>
  <Name>string</Name>
  <RemoveHeadersConfig>
    <Items>
      <ResponseHeadersPolicyRemoveHeader>
        <Header>string</Header>
      </ResponseHeadersPolicyRemoveHeader>
    </Items>
    <Quantity>integer</Quantity>
  </RemoveHeadersConfig>
  <SecurityHeadersConfig>
    <ContentSecurityPolicy>
      <ContentSecurityPolicy>string</ContentSecurityPolicy>
      <Override>boolean</Override>
    </ContentSecurityPolicy>
    <ContentTypeOptions>
      <Override>boolean</Override>
    </ContentTypeOptions>
    <FrameOptions>
      <FrameOption>string</FrameOption>
      <Override>boolean</Override>
    </FrameOptions>
    <ReferrerPolicy>
      <Override>boolean</Override>
      <ReferrerPolicy>string</ReferrerPolicy>
    </ReferrerPolicy>
    <StrictTransportSecurity>
      <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
      <IncludeSubdomains>boolean</IncludeSubdomains>
      <Override>boolean</Override>
      <Preload>boolean</Preload>
    </StrictTransportSecurity>
  </SecurityHeadersConfig>

```

```

        <XSSProtection>
            <ModeBlock>boolean</ModeBlock>
            <Override>boolean</Override>
            <Protection>boolean</Protection>
            <ReportUri>string</ReportUri>
        </XSSProtection>
    </SecurityHeadersConfig>
    <ServerTimingHeadersConfig>
        <Enabled>boolean</Enabled>
        <SamplingRate>double</SamplingRate>
    </ServerTimingHeadersConfig>
    </ResponseHeadersPolicyConfig>
    </ResponseHeadersPolicy>
    <Type>string</Type>
</ResponseHeadersPolicySummary>
</Items>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</ResponseHeadersPolicyList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [ResponseHeadersPolicyList](#)

Root level tag for the ResponseHeadersPolicyList parameters.

Required: Yes

### [Items](#)

The response headers policies in the list.

Type: Array of [ResponseHeadersPolicySummary](#) objects

### [MaxItems](#)

The maximum number of response headers policies requested.

Type: Integer

## **NextMarker**

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing response headers policies where you left off.

Type: String

## **Quantity**

The number of response headers policies returned.

Type: Integer

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListStreamingDistributions

Service: Amazon CloudFront

List streaming distributions.

## Request Syntax

```
GET /2020-05-31/streaming-distribution?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [Marker](#)

The value that you provided for the Marker request parameter.

### [MaxItems](#)

The value that you provided for the MaxItems request parameter.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistributionList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <StreamingDistributionSummary>
      <Aliases>
        <Items>
          <CNAME>string</CNAME>
        </Items>
        <Quantity>integer</Quantity>
      </Aliases>
      <ARN>string</ARN>
    </StreamingDistributionSummary>
  </Items>
</StreamingDistributionList>
```

```

<Comment>string</Comment>
<DomainName>string</DomainName>
<Enabled>boolean</Enabled>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
<PriceClass>string</PriceClass>
<S3Origin>
  <DomainName>string</DomainName>
  <OriginAccessIdentity>string</OriginAccessIdentity>
</S3Origin>
<Status>string</Status>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
</StreamingDistributionSummary>
</Items>
<Marker>string</Marker>
<MaxItems>integer</MaxItems>
<NextMarker>string</NextMarker>
<Quantity>integer</Quantity>
</StreamingDistributionList>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### StreamingDistributionList

Root level tag for the StreamingDistributionList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more streaming distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more distributions in the list.

Type: Boolean

### Items

A complex type that contains one `StreamingDistributionSummary` element for each distribution that was created by the current AWS account.

Type: Array of [StreamingDistributionSummary](#) objects

### Marker

The value you provided for the `Marker` request parameter.

Type: String

### MaxItems

The value you provided for the `MaxItems` request parameter.

Type: Integer

### NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your RTMP distributions where they left off.

Type: String

### Quantity

The number of streaming distributions that were created by the current AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Service: Amazon CloudFront

List tags for a CloudFront resource. For more information, see [Tagging a distribution](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
GET /2020-05-31/tagging?Resource=Resource HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [Resource](#)

An ARN of a CloudFront resource.

Pattern: `arn:aws(-cn)?:cloudfront::[0-9]+:.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<Tags>
  <Items>
    <Tag>
      <Key>string</Key>
      <Value>string</Value>
    </Tag>
  </Items>
</Tags>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## Tags

Root level tag for the Tags parameters.

Required: Yes

## Items

A complex type that contains Tag elements.

Type: Array of [Tag](#) objects

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidTagging**

The tagging specified is not valid.

HTTP Status Code: 400

### **NoSuchResource**

A resource that was specified is not valid.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListVpcOrigins

Service: Amazon CloudFront

List the CloudFront VPC origins in your account.

## Request Syntax

```
GET /2020-05-31/vpc-origin?Marker=Marker&MaxItems=MaxItems HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [Marker](#)

The marker associated with the VPC origins list.

### [MaxItems](#)

The maximum number of items included in the list.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<VpcOriginList>
  <IsTruncated>boolean</IsTruncated>
  <Items>
    <VpcOriginSummary>
      <Arn>string</Arn>
      <CreatedTime>timestamp</CreatedTime>
      <Id>string</Id>
      <LastModifiedTime>timestamp</LastModifiedTime>
      <Name>string</Name>
      <OriginEndpointArn>string</OriginEndpointArn>
      <Status>string</Status>
    </VpcOriginSummary>
  </Items>
```



```
<Marker>string</Marker>  
<MaxItems>integer</MaxItems>  
<NextMarker>string</NextMarker>  
<Quantity>integer</Quantity>  
</VpcOriginList>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### VpcOriginList

Root level tag for the VpcOriginList parameters.

Required: Yes

### IsTruncated

A flag that indicates whether more VPC origins remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more VPC origins in the list.

Type: Boolean

### Items

The items of the VPC origins list.

Type: Array of [VpcOriginSummary](#) objects

### Marker

The marker associated with the VPC origins list.

Type: String

### MaxItems

The maximum number of items included in the list.

Type: Integer

### NextMarker

The next marker associated with the VPC origins list.

Type: String

### Quantity

The number of VPC origins in the list.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PublishFunction

Service: Amazon CloudFront

Publishes a CloudFront function by copying the function code from the DEVELOPMENT stage to LIVE. This automatically updates all cache behaviors that are using this function to use the newly published copy in the LIVE stage.

When a function is published to the LIVE stage, you can attach the function to a distribution's cache behavior, using the function's Amazon Resource Name (ARN).

To publish a function, you must provide the function's name and version (ETag value). To get these values, you can use `ListFunctions` and `DescribeFunction`.

## Request Syntax

```
POST /2020-05-31/function/Name/publish HTTP/1.1
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### If-Match

The current version (ETag value) of the function that you are publishing, which you can get using `DescribeFunction`.

Required: Yes

### Name

The name of the function that you are publishing.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```

<?xml version="1.0" encoding="UTF-8"?>
<FunctionSummary>
  <FunctionConfig>
    <Comment>string</Comment>
    <KeyValueStoreAssociations>
      <Items>
        <KeyValueStoreAssociation>
          <KeyValueStoreARN>string</KeyValueStoreARN>
        </KeyValueStoreAssociation>
      </Items>
      <Quantity>integer</Quantity>
    </KeyValueStoreAssociations>
    <Runtime>string</Runtime>
  </FunctionConfig>
  <FunctionMetadata>
    <CreatedTime>timestamp</CreatedTime>
    <FunctionARN>string</FunctionARN>
    <LastModifiedTime>timestamp</LastModifiedTime>
    <Stage>string</Stage>
  </FunctionMetadata>
  <Name>string</Name>
  <Status>string</Status>
</FunctionSummary>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FunctionSummary

Root level tag for the FunctionSummary parameters.

Required: Yes

### FunctionConfig

Contains configuration information about a CloudFront function.

Type: [FunctionConfig](#) object

### FunctionMetadata

Contains metadata about a CloudFront function.

Type: [FunctionMetadata](#) object

### Name

The name of the CloudFront function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

### Status

The status of the CloudFront function.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchFunctionExists**

The function does not exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Service: Amazon CloudFront

Add tags to a CloudFront resource. For more information, see [Tagging a distribution](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/tagging?Operation=Tag HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<Tags xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Items>
    <Tag>
      <Key>string</Key>
      <Value>string</Value>
    </Tag>
  </Items>
</Tags>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### Tags

Root level tag for the Tags parameters.

Required: Yes

### Items

A complex type that contains Tag elements.

Type: Array of [Tag](#) objects

Required: No



## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### InvalidTagging

The tagging specified is not valid.

HTTP Status Code: 400

### NoSuchResource

A resource that was specified is not valid.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TestFunction

Service: Amazon CloudFront

Tests a CloudFront function.

To test a function, you provide an *event object* that represents an HTTP request or response that your CloudFront distribution could receive in production. CloudFront runs the function, passing it the event object that you provided, and returns the function's result (the modified event object) in the response. The response also contains function logs and error messages, if any exist. For more information about testing functions, see [Testing functions](#) in the *Amazon CloudFront Developer Guide*.

To test a function, you provide the function's name and version (ETag value) along with the event object. To get the function's name and version, you can use `ListFunctions` and `DescribeFunction`.

## Request Syntax

```
POST /2020-05-31/function/Name/test HTTP/1.1
If-Match: IfMatch
<?xml version="1.0" encoding="UTF-8"?>
<TestFunctionRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <EventObject>blob</EventObject>
  <Stage>string</Stage>
</TestFunctionRequest>
```

## URI Request Parameters

The request uses the following URI parameters.

### [If-Match](#)

The current version (ETag value) of the function that you are testing, which you can get using `DescribeFunction`.

Required: Yes

### [Name](#)

The name of the function that you are testing.

Required: Yes

## Request Body

The request accepts the following data in XML format.

### TestFunctionRequest

Root level tag for the TestFunctionRequest parameters.

Required: Yes

### EventObject

The event object to test the function with. For more information about the structure of the event object, see [Testing functions](#) in the *Amazon CloudFront Developer Guide*.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 0. Maximum length of 40960.

Required: Yes

### Stage

The stage of the function that you are testing, either DEVELOPMENT or LIVE.

Type: String

Valid Values: DEVELOPMENT | LIVE

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<TestResult>
  <ComputeUtilization>string</ComputeUtilization>
  <FunctionErrorMessage>string</FunctionErrorMessage>
  <FunctionExecutionLogs>
    <member>string</member>
  </FunctionExecutionLogs>
  <FunctionOutput>string</FunctionOutput>
  <FunctionSummary>
    <FunctionConfig>
```

```

<Comment>string</Comment>
<KeyValueStoreAssociations>
  <Items>
    <KeyValueStoreAssociation>
      <KeyValueStoreARN>string</KeyValueStoreARN>
    </KeyValueStoreAssociation>
  </Items>
  <Quantity>integer</Quantity>
</KeyValueStoreAssociations>
<Runtime>string</Runtime>
</FunctionConfig>
<FunctionMetadata>
  <CreatedTime>timestamp</CreatedTime>
  <FunctionARN>string</FunctionARN>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Stage>string</Stage>
</FunctionMetadata>
<Name>string</Name>
<Status>string</Status>
</FunctionSummary>
</TestResult>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### TestResult

Root level tag for the TestResult parameters.

Required: Yes

### ComputeUtilization

The amount of time that the function took to run as a percentage of the maximum allowed time. For example, a compute utilization of 35 means that the function completed in 35% of the maximum allowed time.

Type: String

### FunctionErrorMessage

If the result of testing the function was an error, this field contains the error message.

Type: String

### **FunctionExecutionLogs**

Contains the log lines that the function wrote (if any) when running the test.

Type: Array of strings

### **FunctionOutput**

The event object returned by the function. For more information about the structure of the event object, see [Event object structure](#) in the *Amazon CloudFront Developer Guide*.

Type: String

### **FunctionSummary**

Contains configuration information and metadata about the CloudFront function that was tested.

Type: [FunctionSummary](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchFunctionExists**

The function does not exist.

HTTP Status Code: 404

### **TestFunctionFailed**

The CloudFront function failed.

HTTP Status Code: 500

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Service: Amazon CloudFront

Remove tags from a CloudFront resource. For more information, see [Tagging a distribution](#) in the *Amazon CloudFront Developer Guide*.

## Request Syntax

```
POST /2020-05-31/tagging?Operation=Untag HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<TagKeys xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Items>
    <Key>string</Key>
  </Items>
</TagKeys>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### TagKeys

Root level tag for the TagKeys parameters.

Required: Yes

### Items

A complex type that contains Tag key elements.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: (`[\p{L}\p{Z}\p{N}_ . : / = + \ - @ ] *`)

Required: No



## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### InvalidTagging

The tagging specified is not valid.

HTTP Status Code: 400

### NoSuchResource

A resource that was specified is not valid.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateCachePolicy

Service: Amazon CloudFront

Updates a cache policy configuration.

When you update a cache policy configuration, all the fields are updated with the values provided in the request. You cannot update some fields independent of others. To update a cache policy configuration:

1. Use `GetCachePolicyConfig` to get the current configuration.
2. Locally modify the fields in the cache policy configuration that you want to update.
3. Call `UpdateCachePolicy` by providing the entire cache policy configuration, including the fields that you modified and those that you didn't.

## Request Syntax

```
PUT /2020-05-31/cache-policy/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <DefaultTTL>long</DefaultTTL>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <Name>string</Name>
  <ParametersInCacheKeyAndForwardedToOrigin>
    <CookiesConfig>
      <CookieBehavior>string</CookieBehavior>
      <Cookies>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </Cookies>
    </CookiesConfig>
    <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
    <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
    <HeadersConfig>
      <HeaderBehavior>string</HeaderBehavior>
      <Headers>
        <Items>
          <Name>string</Name>
        </Items>
      </HeadersConfig>
  </ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>
```

```
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
</HeadersConfig>
<QueryStringsConfig>
  <QueryStringBehavior>string</QueryStringBehavior>
  <QueryStrings>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStrings>
</QueryStringsConfig>
</ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### CachePolicyConfig

Root level tag for the CachePolicyConfig parameters.

Required: Yes

### Comment

A comment to describe the cache policy. The comment cannot be longer than 128 characters.

Type: String

Required: No

### DefaultTTL

The default amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value as the object's time to live (TTL) only when the origin does *not* send

Cache-Control or Expires headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 86400 seconds (one day). If the value of MinTTL is more than 86400 seconds, then the default value for this field is the same as the value of MinTTL.

Type: Long

Required: No

### MaxTTL

The maximum amount of time, in seconds, that objects stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value only when the origin sends Cache-Control or Expires headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 31536000 seconds (one year). If the value of MinTTL or DefaultTTL is more than 31536000 seconds, then the default value for this field is the same as the value of DefaultTTL.

Type: Long

Required: No

### MinTTL

The minimum amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: Yes

### Name

A unique name to identify the cache policy.

Type: String

Required: Yes

### ParametersInCacheKeyAndForwardedToOrigin

The HTTP headers, cookies, and URL query strings to include in the cache key. The values included in the cache key are also included in requests that CloudFront sends to the origin.

Type: [ParametersInCacheKeyAndForwardedToOrigin](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CachePolicy>
  <CachePolicyConfig>
    <Comment>string</Comment>
    <DefaultTTL>long</DefaultTTL>
    <MaxTTL>long</MaxTTL>
    <MinTTL>long</MinTTL>
    <Name>string</Name>
    <ParametersInCacheKeyAndForwardedToOrigin>
      <CookiesConfig>
        <CookieBehavior>string</CookieBehavior>
        <Cookies>
          <Items>
            <Name>string</Name>
          </Items>
          <Quantity>integer</Quantity>
        </Cookies>
      </CookiesConfig>
      <EnableAcceptEncodingBrotli>boolean</EnableAcceptEncodingBrotli>
      <EnableAcceptEncodingGzip>boolean</EnableAcceptEncodingGzip>
      <HeadersConfig>
        <HeaderBehavior>string</HeaderBehavior>
        <Headers>
          <Items>
            <Name>string</Name>
          </Items>
          <Quantity>integer</Quantity>
        </Headers>
      </HeadersConfig>
    </ParametersInCacheKeyAndForwardedToOrigin>
  </CachePolicyConfig>
</CachePolicy>
```

```
<QueryStringConfig>
  <QueryStringBehavior>string</QueryStringBehavior>
  <QueryStrings>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStrings>
</QueryStringConfig>
</ParametersInCacheKeyAndForwardedToOrigin>
</CachePolicyConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</CachePolicy>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### CachePolicy

Root level tag for the CachePolicy parameters.

Required: Yes

### CachePolicyConfig

The cache policy configuration.

Type: [CachePolicyConfig](#) object

### Id

The unique identifier for the cache policy.

Type: String

### LastModifiedTime

The date and time when the cache policy was last modified.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CachePolicyAlreadyExists**

A cache policy with this name already exists. You must provide a unique name. To modify an existing cache policy, use `UpdateCachePolicy`.

HTTP Status Code: 409

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The `If-Match` version is missing or not valid.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404



## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## TooManyCookiesInCachePolicy

The number of cookies in the cache policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyHeadersInCachePolicy

The number of headers in the cache policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyQueryStringInCachePolicy

The number of query strings in the cache policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# UpdateCloudFrontOriginAccessIdentity

Service: Amazon CloudFront

Update an origin access identity.

## Request Syntax

```
PUT /2020-05-31/origin-access-identity/cloudfront/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentityConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
</CloudFrontOriginAccessIdentityConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [CloudFrontOriginAccessIdentityConfig](#)

Root level tag for the `CloudFrontOriginAccessIdentityConfig` parameters.

Required: Yes

### [CallerReference](#)

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `CloudFrontOriginAccessIdentityConfig` object), a new origin access identity is created.

If the `CallerReference` is a value already sent in a previous identity request, and the content of the `CloudFrontOriginAccessIdentityConfig` is identical to the original request (ignoring white space), the response includes the same information returned to the original request.

If the `CallerReference` is a value you already sent in a previous request to create an identity, but the content of the `CloudFrontOriginAccessIdentityConfig` is different from the original request, CloudFront returns a `CloudFrontOriginAccessIdentityAlreadyExists` error.

Type: String

Required: Yes

### Comment

A comment to describe the origin access identity. The comment cannot be longer than 128 characters.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CloudFrontOriginAccessIdentity>
  <CloudFrontOriginAccessIdentityConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
  </CloudFrontOriginAccessIdentityConfig>
  <Id>string</Id>
  <S3CanonicalUserId>string</S3CanonicalUserId>
</CloudFrontOriginAccessIdentity>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### CloudFrontOriginAccessIdentity

Root level tag for the `CloudFrontOriginAccessIdentity` parameters.

Required: Yes

## CloudFrontOriginAccessIdentityConfig

The current configuration information for the identity.

Type: [CloudFrontOriginAccessIdentityConfig](#) object

### Id

The ID for the origin access identity, for example, E74FTE3AJFJ256A.

Type: String

## S3CanonicalUserId

The Amazon S3 canonical user ID for the origin access identity, used when giving the origin access identity read permission to an object in Amazon S3.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

## MissingBody

This operation requires a body. Ensure that the body is present and the Content-Type header is set.

HTTP Status Code: 400

## NoSuchCloudFrontOriginAccessIdentity

The specified origin access identity does not exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateContinuousDeploymentPolicy

Service: Amazon CloudFront

Updates a continuous deployment policy. You can update a continuous deployment policy to enable or disable it, to change the percentage of traffic that it sends to the staging distribution, or to change the staging distribution that it sends traffic to.

When you update a continuous deployment policy configuration, all the fields are updated with the values that are provided in the request. You cannot update some fields independent of others. To update a continuous deployment policy configuration:

1. Use `GetContinuousDeploymentPolicyConfig` to get the current configuration.
2. Locally modify the fields in the continuous deployment policy configuration that you want to update.
3. Use `UpdateContinuousDeploymentPolicy`, providing the entire continuous deployment policy configuration, including the fields that you modified and those that you didn't.

## Request Syntax

```
PUT /2020-05-31/continuous-deployment-policy/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Enabled>boolean</Enabled>
  <StagingDistributionDnsNames>
    <Items>
      <DnsName>string</DnsName>
    </Items>
    <Quantity>integer</Quantity>
  </StagingDistributionDnsNames>
  <TrafficConfig>
    <SingleHeaderConfig>
      <Header>string</Header>
      <Value>string</Value>
    </SingleHeaderConfig>
    <SingleWeightConfig>
      <SessionStickinessConfig>
        <IdleTTL>integer</IdleTTL>
        <MaximumTTL>integer</MaximumTTL>
      </SessionStickinessConfig>
    </SingleWeightConfig>
  </TrafficConfig>
</ContinuousDeploymentPolicyConfig>
```

```
<Weight>float</Weight>
</SingleWeightConfig>
<Type>string</Type>
</TrafficConfig>
</ContinuousDeploymentPolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### ContinuousDeploymentPolicyConfig

Root level tag for the ContinuousDeploymentPolicyConfig parameters.

Required: Yes

#### Enabled

A Boolean that indicates whether this continuous deployment policy is enabled (in effect). When this value is `true`, this policy is enabled and in effect. When this value is `false`, this policy is not enabled and has no effect.

Type: Boolean

Required: Yes

### StagingDistributionDnsNames

The CloudFront domain name of the staging distribution. For example: `d111111abcdef8.cloudfront.net`.

Type: [StagingDistributionDnsNames](#) object

Required: Yes

### TrafficConfig

Contains the parameters for routing production traffic from your primary to staging distributions.



Type: [TrafficConfig](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ContinuousDeploymentPolicy>
  <ContinuousDeploymentPolicyConfig>
    <Enabled>boolean</Enabled>
    <StagingDistributionDnsNames>
      <Items>
        <DnsName>string</DnsName>
      </Items>
      <Quantity>integer</Quantity>
    </StagingDistributionDnsNames>
    <TrafficConfig>
      <SingleHeaderConfig>
        <Header>string</Header>
        <Value>string</Value>
      </SingleHeaderConfig>
      <SingleWeightConfig>
        <SessionStickinessConfig>
          <IdleTTL>integer</IdleTTL>
          <MaximumTTL>integer</MaximumTTL>
        </SessionStickinessConfig>
        <Weight>float</Weight>
      </SingleWeightConfig>
      <Type>string</Type>
    </TrafficConfig>
  </ContinuousDeploymentPolicyConfig>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
</ContinuousDeploymentPolicy>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## ContinuousDeploymentPolicy

Root level tag for the ContinuousDeploymentPolicy parameters.

Required: Yes

## ContinuousDeploymentPolicyConfig

Contains the configuration for a continuous deployment policy.

Type: [ContinuousDeploymentPolicyConfig](#) object

## Id

The identifier of the continuous deployment policy.

Type: String

## LastModifiedTime

The date and time the continuous deployment policy was last modified.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### InconsistentQuantities

The value of Quantity and the size of Items don't match.

HTTP Status Code: 400

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

## **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

## **NoSuchContinuousDeploymentPolicy**

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

## **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## **StagingDistributionInUse**

A continuous deployment policy for this staging distribution already exists.

HTTP Status Code: 409

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## UpdateDistribution

Service: Amazon CloudFront

Updates the configuration for a CloudFront distribution.

The update process includes getting the current distribution configuration, updating it to make your changes, and then submitting an UpdateDistribution request to make the updates.

### To update a web distribution using the CloudFront API

1. Use GetDistributionConfig to get the current configuration, including the version identifier (ETag).
2. Update the distribution configuration that was returned in the response. Note the following important requirements and restrictions:
  - You must copy the ETag field value from the response. (You'll use it for the IfMatch parameter in your request.) Then, remove the ETag field from the distribution configuration.
  - You can't change the value of CallerReference.
3. Submit an UpdateDistribution request, providing the updated distribution configuration. The new configuration replaces the existing configuration. The values that you specify in an UpdateDistribution request are not merged into your existing configuration. Make sure to include all fields: the ones that you modified and also the ones that you didn't.

### Request Syntax

```
PUT /2020-05-31/distribution/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<DistributionConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <AnycastIpListId>string</AnycastIpListId>
  <CacheBehaviors>
    <Items>
      <CacheBehavior>
        <AllowedMethods>
          <CachedMethods>
```

```

    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </CachedMethods>
  <Items>
    <Method>string</Method>
  </Items>
  <Quantity>integer</Quantity>
</AllowedMethods>
<CachePolicyId>string</CachePolicyId>
<Compress>boolean</Compress>
<DefaultTTL>long</DefaultTTL>
<FieldLevelEncryptionId>string</FieldLevelEncryptionId>
<ForwardedValues>
  <Cookies>
    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
</FunctionAssociations>

```

```

    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>
  <LambdaFunctionAssociations>
    <Items>
      <LambdaFunctionAssociation>
        <EventType>string</EventType>
        <IncludeBody>boolean</IncludeBody>
        <LambdaFunctionARN>string</LambdaFunctionARN>
      </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </LambdaFunctionAssociations>
  <MaxTTL>long</MaxTTL>
  <MinTTL>long</MinTTL>
  <OriginRequestPolicyId>string</OriginRequestPolicyId>
  <PathPattern>string</PathPattern>
  <RealtimeLogConfigArn>string</RealtimeLogConfigArn>
  <ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
  <SmoothStreaming>boolean</SmoothStreaming>
  <TargetOriginId>string</TargetOriginId>
  <TrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>string</KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedKeyGroups>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
  <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>

```

```

<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </CachedMethods>
    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>
      <WhitelistedNames>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </WhitelistedNames>
    </Cookies>
    <Headers>
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      </Items>

```

```

    <Quantity>integer</Quantity>
  </Headers>
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  <QueryStringCacheKeys>
    <Items>
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    </FunctionAssociation>
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</FunctionAssociations>
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</GrpcConfig>
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    <LambdaFunctionAssociation>
      <EventType>string</EventType>
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      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
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<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>

```



```

    <Quantity>integer</Quantity>
  </TrustedKeyGroups>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
  <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>
          </OriginGroupMember>
        </Items>
        <Quantity>integer</Quantity>
      </Members>
      <SelectionCriteria>string</SelectionCriteria>
    </OriginGroup>
  </Items>

```

```

    <Quantity>integer</Quantity>
  </OriginGroups>
  <Origins>
    <Items>
      <Origin>
        <ConnectionAttempts>integer</ConnectionAttempts>
        <ConnectionTimeout>integer</ConnectionTimeout>
        <CustomHeaders>
          <Items>
            <OriginCustomHeader>
              <HeaderName>string</HeaderName>
              <HeaderValue>string</HeaderValue>
            </OriginCustomHeader>
          </Items>
          <Quantity>integer</Quantity>
        </CustomHeaders>
        <CustomOriginConfig>
          <HTTPPort>integer</HTTPPort>
          <HTTPSPort>integer</HTTPSPort>
          <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
          <OriginProtocolPolicy>string</OriginProtocolPolicy>
          <OriginReadTimeout>integer</OriginReadTimeout>
          <OriginSslProtocols>
            <Items>
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            </Items>
            <Quantity>integer</Quantity>
          </OriginSslProtocols>
        </CustomOriginConfig>
        <DomainName>string</DomainName>
        <Id>string</Id>
        <OriginAccessControlId>string</OriginAccessControlId>
        <OriginPath>string</OriginPath>
        <OriginShield>
          <Enabled>boolean</Enabled>
          <OriginShieldRegion>string</OriginShieldRegion>
        </OriginShield>
        <S3OriginConfig>
          <OriginAccessIdentity>string</OriginAccessIdentity>
        </S3OriginConfig>
        <VpcOriginConfig>
          <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
          <OriginReadTimeout>integer</OriginReadTimeout>
          <VpcOriginId>string</VpcOriginId>
      </Origin>
    </Items>
  </Origins>

```

```

    </VpcOriginConfig>
  </Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>

```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### DistributionConfig

Root level tag for the DistributionConfig parameters.

Required: Yes

## Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this distribution.

Type: [Aliases](#) object

Required: No

## AnycastIpListId

ID of the Anycast static IP list that is associated with the distribution.

Type: String

Required: No

## CacheBehaviors

A complex type that contains zero or more `CacheBehavior` elements.

Type: [CacheBehaviors](#) object

Required: No

## CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `DistributionConfig` object), CloudFront creates a new distribution.

If `CallerReference` is a value that you already sent in a previous request to create a distribution, CloudFront returns a `DistributionAlreadyExists` error.

Type: String

Required: Yes

## Comment

A comment to describe the distribution. The comment cannot be longer than 128 characters.

Type: String

Required: Yes

### ContinuousDeploymentPolicyId

The identifier of a continuous deployment policy. For more information, see `CreateContinuousDeploymentPolicy`.

Type: String

Required: No

### CustomErrorResponses

A complex type that controls the following:

- Whether CloudFront replaces HTTP status codes in the 4xx and 5xx range with custom error messages before returning the response to the viewer.
- How long CloudFront caches HTTP status codes in the 4xx and 5xx range.

For more information about custom error pages, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

Type: [CustomErrorResponses](#) object

Required: No

### DefaultCacheBehavior

A complex type that describes the default cache behavior if you don't specify a `CacheBehavior` element or if files don't match any of the values of `PathPattern` in `CacheBehavior` elements. You must create exactly one default cache behavior.

Type: [DefaultCacheBehavior](#) object

Required: Yes

### DefaultRootObject

When a viewer requests the root URL for your distribution, the default root object is the object that you want CloudFront to request from your origin. For example, if your root URL is `https://www.example.com`, you can specify CloudFront to return the `index.html` file as the default root object. You can specify a default root object so that viewers see a specific file or object, instead of another object in your distribution (for example, `https://www.example.com/product-description.html`). A default root object avoids exposing the contents of your distribution.

You can specify the object name or a path to the object name (for example, `index.html` or `exampleFolderName/index.html`). Your string can't begin with a forward slash (/). Only specify the object name or the path to the object.

If you don't want to specify a default root object when you create a distribution, include an empty `DefaultRootObject` element.

To delete the default root object from an existing distribution, update the distribution configuration and include an empty `DefaultRootObject` element.

To replace the default root object, update the distribution configuration and specify the new object.

For more information about the default root object, see [Specify a default root object](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

### [Enabled](#)

From this field, you can enable or disable the selected distribution.

Type: Boolean

Required: Yes

### [HttpVersion](#)

(Optional) Specify the HTTP version(s) that you want viewers to use to communicate with CloudFront. The default value for new web distributions is `http2`. Viewers that don't support HTTP/2 automatically use an earlier HTTP version.

For viewers and CloudFront to use HTTP/2, viewers must support TLSv1.2 or later, and must support Server Name Indication (SNI).

For viewers and CloudFront to use HTTP/3, viewers must support TLSv1.3 and Server Name Indication (SNI). CloudFront supports HTTP/3 connection migration to allow the viewer to switch networks without losing connection. For more information about connection migration, see [Connection Migration](#) at RFC 9000. For more information about supported TLSv1.3 ciphers, see [Supported protocols and ciphers between viewers and CloudFront](#).

Type: String

Valid Values: `http1.1` | `http2` | `http3` | `http2and3`

Required: No

### IsIPv6Enabled

If you want CloudFront to respond to IPv6 DNS requests with an IPv6 address for your distribution, specify `true`. If you specify `false`, CloudFront responds to IPv6 DNS requests with the DNS response code `NOERROR` and with no IP addresses. This allows viewers to submit a second request, for an IPv4 address for your distribution.

In general, you should enable IPv6 if you have users on IPv6 networks who want to access your content. However, if you're using signed URLs or signed cookies to restrict access to your content, and if you're using a custom policy that includes the `IpAddress` parameter to restrict the IP addresses that can access your content, don't enable IPv6. If you want to restrict access to some content by IP address and not restrict access to other content (or restrict access but not by IP address), you can create two distributions. For more information, see [Creating a Signed URL Using a Custom Policy](#) in the *Amazon CloudFront Developer Guide*.

If you're using an Amazon Route 53 AWS Integration alias resource record set to route traffic to your CloudFront distribution, you need to create a second alias resource record set when both of the following are true:

- You enable IPv6 for the distribution
- You're using alternate domain names in the URLs for your objects

For more information, see [Routing Traffic to an Amazon CloudFront Web Distribution by Using Your Domain Name](#) in the *Amazon Route 53 AWS Integration Developer Guide*.

If you created a CNAME resource record set, either with Amazon Route 53 AWS Integration or with another DNS service, you don't need to make any changes. A CNAME record will route traffic to your distribution regardless of the IP address format of the viewer request.

Type: Boolean

Required: No

### Logging

A complex type that controls whether access logs are written for the distribution.

For more information about logging, see [Access Logs](#) in the *Amazon CloudFront Developer Guide*.

Type: [LoggingConfig](#) object

Required: No

### [OriginGroups](#)

A complex type that contains information about origin groups for this distribution.

Type: [OriginGroups](#) object

Required: No

### [Origins](#)

A complex type that contains information about origins for this distribution.

Type: [Origins](#) object

Required: Yes

### [PriceClass](#)

The price class that corresponds with the maximum price that you want to pay for CloudFront service. If you specify `PriceClass_All`, CloudFront responds to requests for your objects from all CloudFront edge locations.

If you specify a price class other than `PriceClass_All`, CloudFront serves your objects from the CloudFront edge location that has the lowest latency among the edge locations in your price class. Viewers who are in or near regions that are excluded from your specified price class may encounter slower performance.

For more information about price classes, see [Choosing the Price Class for a CloudFront Distribution](#) in the *Amazon CloudFront Developer Guide*. For information about CloudFront pricing, including how price classes (such as Price Class 100) map to CloudFront regions, see [Amazon CloudFront Pricing](#).

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

Required: No



## Restrictions

A complex type that identifies ways in which you want to restrict distribution of your content.

Type: [Restrictions](#) object

Required: No

## Staging

A Boolean that indicates whether this is a staging distribution. When this value is `true`, this is a staging distribution. When this value is `false`, this is not a staging distribution.

Type: Boolean

Required: No

## ViewerCertificate

A complex type that determines the distribution's SSL/TLS configuration for communicating with viewers.

Type: [ViewerCertificate](#) object

Required: No

## WebACLId

A unique identifier that specifies the AWS WAF web ACL, if any, to associate with this distribution. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`.

AWS WAF is a web application firewall that lets you monitor the HTTP and HTTPS requests that are forwarded to CloudFront, and lets you control access to your content. Based on conditions that you specify, such as the IP addresses that requests originate from or the values of query strings, CloudFront responds to requests either with the requested content or with an HTTP 403 status code (Forbidden). You can also configure CloudFront to return a custom error page when a request is blocked. For more information about AWS WAF, see the [AWS WAF Developer Guide](#).

Type: String

Required: No

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<Distribution>
  <ActiveTrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>
        <KeyGroupId>string</KeyGroupId>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedKeyGroups>
  <ActiveTrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <Signer>
        <AwsAccountNumber>string</AwsAccountNumber>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </Signer>
    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedSigners>
  <AliasICPRecordals>
    <AliasICPRecordal>
      <CNAME>string</CNAME>
      <ICPRecordalStatus>string</ICPRecordalStatus>
    </AliasICPRecordal>
  </AliasICPRecordals>
  <ARN>string</ARN>
  <DistributionConfig>

```

```

<Aliases>
  <Items>
    <CNAME>string</CNAME>
  </Items>
  <Quantity>integer</Quantity>
</Aliases>
<AnycastIpListId>string</AnycastIpListId>
<CacheBehaviors>
  <Items>
    <CacheBehavior>
      <AllowedMethods>
        <CachedMethods>
          <Items>
            <Method>string</Method>
          </Items>
          <Quantity>integer</Quantity>
        </CachedMethods>
        <Items>
          <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
      </AllowedMethods>
      <CachePolicyId>string</CachePolicyId>
      <Compress>boolean</Compress>
      <DefaultTTL>long</DefaultTTL>
      <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
      <ForwardedValues>
        <Cookies>
          <Forward>string</Forward>
          <WhitelistedNames>
            <Items>
              <Name>string</Name>
            </Items>
            <Quantity>integer</Quantity>
          </WhitelistedNames>
        </Cookies>
        <Headers>
          <Items>
            <Name>string</Name>
          </Items>
          <Quantity>integer</Quantity>
        </Headers>
        <QueryString>boolean</QueryString>
        <QueryStringCacheKeys>

```

```

    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>

```

```

        <Enabled>boolean</Enabled>
        <Items>
            <AwsAccountNumber>string</AwsAccountNumber>
        </Items>
        <Quantity>integer</Quantity>
    </TrustedSigners>
    <ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
    <Items>
        <CustomErrorResponse>
            <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
            <ErrorCode>integer</ErrorCode>
            <ResponseCode>string</ResponseCode>
            <ResponsePagePath>string</ResponsePagePath>
        </CustomErrorResponse>
    </Items>
    <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
    <AllowedMethods>
        <CachedMethods>
            <Items>
                <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
        </CachedMethods>
        <Items>
            <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
    </AllowedMethods>
    <CachePolicyId>string</CachePolicyId>
    <Compress>boolean</Compress>
    <DefaultTTL>long</DefaultTTL>
    <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
    <ForwardedValues>
        <Cookies>

```

```

    <Forward>string</Forward>
    <WhitelistedNames>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </WhitelistedNames>
  </Cookies>
  <Headers>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </Headers>
  <QueryString>boolean</QueryString>
  <QueryStringCacheKeys>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
  <Items>
    <FunctionAssociation>
      <EventType>string</EventType>
      <FunctionARN>string</FunctionARN>
    </FunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
  <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>

```

```

<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>
<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
    </OriginGroup>
  </Items>
</OriginGroups>

```

```

<Id>string</Id>
<Members>
  <Items>
    <OriginGroupMember>
      <OriginId>string</OriginId>
    </OriginGroupMember>
  </Items>
  <Quantity>integer</Quantity>
</Members>
<SelectionCriteria>string</SelectionCriteria>
</OriginGroup>
</Items>
<Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
        <HTTPSPort>integer</HTTPSPort>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginProtocolPolicy>string</OriginProtocolPolicy>
        <OriginReadTimeout>integer</OriginReadTimeout>
        <OriginSslProtocols>
          <Items>
            <SslProtocol>string</SslProtocol>
          </Items>
          <Quantity>integer</Quantity>
        </OriginSslProtocols>
      </CustomOriginConfig>
      <DomainName>string</DomainName>
    </Origin>
  </Items>
  <Quantity>integer</Quantity>
</Origins>
<Id>string</Id>
<OriginAccessControlId>string</OriginAccessControlId>

```



```

    <OriginPath>string</OriginPath>
    <OriginShield>
      <Enabled>boolean</Enabled>
      <OriginShieldRegion>string</OriginShieldRegion>
    </OriginShield>
    <S3OriginConfig>
      <OriginAccessIdentity>string</OriginAccessIdentity>
    </S3OriginConfig>
    <VpcOriginConfig>
      <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
      <OriginReadTimeout>integer</OriginReadTimeout>
      <VpcOriginId>string</VpcOriginId>
    </VpcOriginConfig>
  </Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>
  <IAMCertificateId>string</IAMCertificateId>
  <MinimumProtocolVersion>string</MinimumProtocolVersion>
  <SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
  <WebACLId>string</WebACLId>
</DistributionConfig>
<DomainName>string</DomainName>
<Id>string</Id>
<InProgressInvalidationBatches>integer</InProgressInvalidationBatches>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>

```

```
</Distribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### Distribution

Root level tag for the Distribution parameters.

Required: Yes

### ActiveTrustedKeyGroups

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

### ActiveTrustedSigners

#### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

### AliasICPRecordals

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

## ARN

The distribution's Amazon Resource Name (ARN).

Type: String

## DistributionConfig

The distribution's configuration.

Type: [DistributionConfig](#) object

## DomainName

The distribution's CloudFront domain name. For example: `d111111abcdef8.cloudfront.net`.

Type: String

## Id

The distribution's identifier. For example: `E1U5RQF7T870K0`.

Type: String

## InProgressInvalidationBatches

The number of invalidation batches currently in progress.

Type: Integer

## LastModifiedTime

The date and time when the distribution was last modified.

Type: Timestamp

## Status

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

**AccessDenied**

Access denied.

HTTP Status Code: 403

**CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

**ContinuousDeploymentPolicyInUse**

You cannot delete a continuous deployment policy that is associated with a primary distribution.

HTTP Status Code: 409

**EntityNotFound**

The entity was not found.

HTTP Status Code: 404

**IllegalFieldLevelEncryptionConfigAssociationWithCacheBehavior**

The specified configuration for field-level encryption can't be associated with the specified cache behavior.

HTTP Status Code: 400

**IllegalOriginAccessConfiguration**

An origin cannot contain both an origin access control (OAC) and an origin access identity (OAI).

HTTP Status Code: 400

**IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

**InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidDefaultRootObject**

The default root object file name is too big or contains an invalid character.

HTTP Status Code: 400

### **InvalidDomainNameForOriginAccessControl**

An origin access control is associated with an origin whose domain name is not supported.

HTTP Status Code: 400

### **InvalidErrorCode**

An invalid error code was specified.

HTTP Status Code: 400

### **InvalidForwardCookies**

Your request contains forward cookies option which doesn't match with the expectation for the `whitelisted` list of cookie names. Either list of cookie names has been specified when not allowed or list of cookie names is missing when expected.

HTTP Status Code: 400

### **InvalidFunctionAssociation**

A CloudFront function association is invalid.

HTTP Status Code: 400

### **InvalidGeoRestrictionParameter**

The specified geo restriction parameter is not valid.

HTTP Status Code: 400

### **InvalidHeadersForS3Origin**

The headers specified are not valid for an Amazon S3 origin.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **InvalidLambdaFunctionAssociation**

The specified Lambda@Edge function association is invalid.

HTTP Status Code: 400

### **InvalidLocationCode**

The location code specified is not valid.

HTTP Status Code: 400

### **InvalidMinimumProtocolVersion**

The minimum protocol version specified is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **InvalidOriginKeepaliveTimeout**

The keep alive timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidOriginReadTimeout**

The read timeout specified for the origin is not valid.

HTTP Status Code: 400

## InvalidQueryStringParameters

The query string parameters specified are not valid.

HTTP Status Code: 400

## InvalidRelativePath

The relative path is too big, is not URL-encoded, or does not begin with a slash (/).

HTTP Status Code: 400

## InvalidRequiredProtocol

This operation requires the HTTPS protocol. Ensure that you specify the HTTPS protocol in your request, or omit the `RequiredProtocols` element from your distribution configuration.

HTTP Status Code: 400

## InvalidResponseCode

A response code is not valid.

HTTP Status Code: 400

## InvalidTTLOrder

The TTL order specified is not valid.

HTTP Status Code: 400

## InvalidViewerCertificate

A viewer certificate specified is not valid.

HTTP Status Code: 400

## InvalidWebACLId

A web ACL ID specified is not valid. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/473e64fd-f30b-4765-81a0-62ad96dd167a`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `473e64fd-f30b-4765-81a0-62ad96dd167a`.

HTTP Status Code: 400

## MissingBody

This operation requires a body. Ensure that the body is present and the Content-Type header is set.

HTTP Status Code: 400

## NoSuchCachePolicy

The cache policy does not exist.

HTTP Status Code: 404

## NoSuchContinuousDeploymentPolicy

The continuous deployment policy doesn't exist.

HTTP Status Code: 404

## NoSuchDistribution

The specified distribution does not exist.

HTTP Status Code: 404

## NoSuchFieldLevelEncryptionConfig

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

## NoSuchOrigin

No origin exists with the specified Origin Id.

HTTP Status Code: 404

## NoSuchOriginRequestPolicy

The origin request policy does not exist.

HTTP Status Code: 404

## NoSuchRealtimeLogConfig

The real-time log configuration does not exist.

HTTP Status Code: 404



### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### **RealtimeLogConfigOwnerMismatch**

The specified real-time log configuration belongs to a different AWS account.

HTTP Status Code: 401

### **StagingDistributionInUse**

A continuous deployment policy for this staging distribution already exists.

HTTP Status Code: 409

### **TooManyCacheBehaviors**

You cannot create more cache behaviors for the distribution.

HTTP Status Code: 400

### **TooManyCertificates**

You cannot create anymore custom SSL/TLS certificates.

HTTP Status Code: 400

### **TooManyCookieNamesInWhiteList**

Your request contains more cookie names in the whitelist than are allowed per cache behavior.

HTTP Status Code: 400

### **TooManyDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToCachePolicy**

The maximum number of distributions have been associated with the specified cache policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToFieldLevelEncryptionConfig**

The maximum number of distributions have been associated with the specified configuration for field-level encryption.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToKeyGroup**

The number of distributions that reference this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginAccessControl**

The maximum number of distributions have been associated with the specified origin access control.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginRequestPolicy**

The maximum number of distributions have been associated with the specified origin request policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToResponseHeadersPolicy**

The maximum number of distributions have been associated with the specified response headers policy.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithFunctionAssociations**

You have reached the maximum number of distributions that are associated with a CloudFront function. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithLambdaAssociations**

Processing your request would cause the maximum number of distributions with Lambda@Edge function associations per owner to be exceeded.

HTTP Status Code: 400

### **TooManyDistributionsWithSingleFunctionARN**

The maximum number of distributions have been associated with the specified Lambda@Edge function.

HTTP Status Code: 400

### **TooManyFunctionAssociations**

You have reached the maximum number of CloudFront function associations for this distribution. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyHeadersInForwardedValues**

Your request contains too many headers in forwarded values.

HTTP Status Code: 400

### **TooManyKeyGroupsAssociatedToDistribution**

The number of key groups referenced by this distribution is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyLambdaFunctionAssociations**

Your request contains more Lambda@Edge function associations than are allowed per distribution.

HTTP Status Code: 400

### **TooManyOriginCustomHeaders**

Your request contains too many origin custom headers.

HTTP Status Code: 400

### **TooManyOriginGroupsPerDistribution**

Processing your request would cause you to exceed the maximum number of origin groups allowed.

HTTP Status Code: 400

### **TooManyOrigins**

You cannot create more origins for the distribution.

HTTP Status Code: 400

### **TooManyQueryStringParameters**

Your request contains too many query string parameters.

HTTP Status Code: 400

### **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

### **TrustedKeyGroupDoesNotExist**

The specified key group does not exist.

HTTP Status Code: 400

### **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

## HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateDistributionWithStagingConfig

Service: Amazon CloudFront

Copies the staging distribution's configuration to its corresponding primary distribution. The primary distribution retains its `Aliases` (also known as alternate domain names or CNAMEs) and `ContinuousDeploymentPolicyId` value, but otherwise its configuration is overwritten to match the staging distribution.

You can use this operation in a continuous deployment workflow after you have tested configuration changes on the staging distribution. After using a continuous deployment policy to move a portion of your domain name's traffic to the staging distribution and verifying that it works as intended, you can use this operation to copy the staging distribution's configuration to the primary distribution. This action will disable the continuous deployment policy and move your domain's traffic back to the primary distribution.

This API operation requires the following IAM permissions:

- [GetDistribution](#)
- [UpdateDistribution](#)

## Request Syntax

```
PUT /2020-05-31/distribution/Id/promote-staging-config?  
StagingDistributionId=StagingDistributionId HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the primary distribution to which you are copying a staging distribution's configuration.

Required: Yes

### If-Match

The current versions (ETag values) of both primary and staging distributions. Provide these in the following format:

<primary ETag>, <staging ETag>

## StagingDistributionId

The identifier of the staging distribution whose configuration you are copying to the primary distribution.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<Distribution>
  <ActiveTrustedKeyGroups>
    <Enabled>boolean</Enabled>
    <Items>
      <KeyGroup>
        <KeyGroupId>string</KeyGroupId>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </KeyGroup>
    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedKeyGroups>
  <ActiveTrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <Signer>
        <AwsAccountNumber>string</AwsAccountNumber>
        <KeyPairIds>
          <Items>
            <KeyPairId>string</KeyPairId>
          </Items>
          <Quantity>integer</Quantity>
        </KeyPairIds>
      </Signer>
    </Items>
  </ActiveTrustedSigners>

```

```

    </Items>
    <Quantity>integer</Quantity>
  </ActiveTrustedSigners>
  <AliasICPRecordals>
    <AliasICPRecordal>
      <CNAME>string</CNAME>
      <ICPRecordalStatus>string</ICPRecordalStatus>
    </AliasICPRecordal>
  </AliasICPRecordals>
  <ARN>string</ARN>
  <DistributionConfig>
    <Aliases>
      <Items>
        <CNAME>string</CNAME>
      </Items>
      <Quantity>integer</Quantity>
    </Aliases>
    <AnycastIpListId>string</AnycastIpListId>
    <CacheBehaviors>
      <Items>
        <CacheBehavior>
          <AllowedMethods>
            <CachedMethods>
              <Items>
                <Method>string</Method>
              </Items>
              <Quantity>integer</Quantity>
            </CachedMethods>
            <Items>
              <Method>string</Method>
            </Items>
            <Quantity>integer</Quantity>
          </AllowedMethods>
          <CachePolicyId>string</CachePolicyId>
          <Compress>boolean</Compress>
          <DefaultTTL>long</DefaultTTL>
          <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
          <ForwardedValues>
            <Cookies>
              <Forward>string</Forward>
            <WhitelistedNames>
              <Items>
                <Name>string</Name>
              </Items>
            </Cookies>
          </ForwardedValues>
        </CacheBehavior>
      </Items>
    </CacheBehaviors>
  </DistributionConfig>

```



```

        <Quantity>integer</Quantity>
    </WhitelistedNames>
</Cookies>
<Headers>
    <Items>
        <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
</Headers>
<QueryString>boolean</QueryString>
<QueryStringCacheKeys>
    <Items>
        <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
</QueryStringCacheKeys>
</ForwardedValues>
<FunctionAssociations>
    <Items>
        <FunctionAssociation>
            <EventType>string</EventType>
            <FunctionARN>string</FunctionARN>
        </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</FunctionAssociations>
<GrpcConfig>
    <Enabled>boolean</Enabled>
</GrpcConfig>
<LambdaFunctionAssociations>
    <Items>
        <LambdaFunctionAssociation>
            <EventType>string</EventType>
            <IncludeBody>boolean</IncludeBody>
            <LambdaFunctionARN>string</LambdaFunctionARN>
        </LambdaFunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<PathPattern>string</PathPattern>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>

```

```

<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</CacheBehavior>
</Items>
<Quantity>integer</Quantity>
</CacheBehaviors>
<CallerReference>string</CallerReference>
<Comment>string</Comment>
<ContinuousDeploymentPolicyId>string</ContinuousDeploymentPolicyId>
<CustomErrorResponses>
  <Items>
    <CustomErrorResponse>
      <ErrorCachingMinTTL>long</ErrorCachingMinTTL>
      <ErrorCode>integer</ErrorCode>
      <ResponseCode>string</ResponseCode>
      <ResponsePagePath>string</ResponsePagePath>
    </CustomErrorResponse>
  </Items>
  <Quantity>integer</Quantity>
</CustomErrorResponses>
<DefaultCacheBehavior>
  <AllowedMethods>
    <CachedMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </CachedMethods>

```

```

    <Items>
      <Method>string</Method>
    </Items>
    <Quantity>integer</Quantity>
  </AllowedMethods>
  <CachePolicyId>string</CachePolicyId>
  <Compress>boolean</Compress>
  <DefaultTTL>long</DefaultTTL>
  <FieldLevelEncryptionId>string</FieldLevelEncryptionId>
  <ForwardedValues>
    <Cookies>
      <Forward>string</Forward>
      <WhitelistedNames>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </WhitelistedNames>
    </Cookies>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
    <QueryString>boolean</QueryString>
    <QueryStringCacheKeys>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </QueryStringCacheKeys>
  </ForwardedValues>
  <FunctionAssociations>
    <Items>
      <FunctionAssociation>
        <EventType>string</EventType>
        <FunctionARN>string</FunctionARN>
      </FunctionAssociation>
    </Items>
    <Quantity>integer</Quantity>
  </FunctionAssociations>
  <GrpcConfig>
    <Enabled>boolean</Enabled>
  </GrpcConfig>

```

```

</GrpcConfig>
<LambdaFunctionAssociations>
  <Items>
    <LambdaFunctionAssociation>
      <EventType>string</EventType>
      <IncludeBody>boolean</IncludeBody>
      <LambdaFunctionARN>string</LambdaFunctionARN>
    </LambdaFunctionAssociation>
  </Items>
  <Quantity>integer</Quantity>
</LambdaFunctionAssociations>
<MaxTTL>long</MaxTTL>
<MinTTL>long</MinTTL>
<OriginRequestPolicyId>string</OriginRequestPolicyId>
<RealtimeLogConfigArn>string</RealtimeLogConfigArn>
<ResponseHeadersPolicyId>string</ResponseHeadersPolicyId>
<SmoothStreaming>boolean</SmoothStreaming>
<TargetOriginId>string</TargetOriginId>
<TrustedKeyGroups>
  <Enabled>boolean</Enabled>
  <Items>
    <KeyGroup>string</KeyGroup>
  </Items>
  <Quantity>integer</Quantity>
</TrustedKeyGroups>
<TrustedSigners>
  <Enabled>boolean</Enabled>
  <Items>
    <AwsAccountNumber>string</AwsAccountNumber>
  </Items>
  <Quantity>integer</Quantity>
</TrustedSigners>
<ViewerProtocolPolicy>string</ViewerProtocolPolicy>
</DefaultCacheBehavior>
<DefaultRootObject>string</DefaultRootObject>
<Enabled>boolean</Enabled>
<HttpVersion>string</HttpVersion>
<IsIPV6Enabled>boolean</IsIPV6Enabled>
<Logging>
  <Bucket>string</Bucket>
  <Enabled>boolean</Enabled>
  <IncludeCookies>boolean</IncludeCookies>
  <Prefix>string</Prefix>
</Logging>

```

```

<OriginGroups>
  <Items>
    <OriginGroup>
      <FailoverCriteria>
        <StatusCodes>
          <Items>
            <StatusCode>integer</StatusCode>
          </Items>
          <Quantity>integer</Quantity>
        </StatusCodes>
      </FailoverCriteria>
      <Id>string</Id>
      <Members>
        <Items>
          <OriginGroupMember>
            <OriginId>string</OriginId>
          </OriginGroupMember>
        </Items>
        <Quantity>integer</Quantity>
      </Members>
      <SelectionCriteria>string</SelectionCriteria>
    </OriginGroup>
  </Items>
  <Quantity>integer</Quantity>
</OriginGroups>
<Origins>
  <Items>
    <Origin>
      <ConnectionAttempts>integer</ConnectionAttempts>
      <ConnectionTimeout>integer</ConnectionTimeout>
      <CustomHeaders>
        <Items>
          <OriginCustomHeader>
            <HeaderName>string</HeaderName>
            <HeaderValue>string</HeaderValue>
          </OriginCustomHeader>
        </Items>
        <Quantity>integer</Quantity>
      </CustomHeaders>
      <CustomOriginConfig>
        <HTTPPort>integer</HTTPPort>
        <HTTPSPort>integer</HTTPSPort>
        <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
        <OriginProtocolPolicy>string</OriginProtocolPolicy>
      </CustomOriginConfig>
    </Origin>
  </Items>
  <Quantity>integer</Quantity>
</Origins>

```

```

    <OriginReadTimeout>integer</OriginReadTimeout>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </CustomOriginConfig>
  <DomainName>string</DomainName>
  <Id>string</Id>
  <OriginAccessControlId>string</OriginAccessControlId>
  <OriginPath>string</OriginPath>
  <OriginShield>
    <Enabled>boolean</Enabled>
    <OriginShieldRegion>string</OriginShieldRegion>
  </OriginShield>
  <S3OriginConfig>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3OriginConfig>
  <VpcOriginConfig>
    <OriginKeepaliveTimeout>integer</OriginKeepaliveTimeout>
    <OriginReadTimeout>integer</OriginReadTimeout>
    <VpcOriginId>string</VpcOriginId>
  </VpcOriginConfig>
</Origin>
</Items>
<Quantity>integer</Quantity>
</Origins>
<PriceClass>string</PriceClass>
<Restrictions>
  <GeoRestriction>
    <Items>
      <Location>string</Location>
    </Items>
    <Quantity>integer</Quantity>
    <RestrictionType>string</RestrictionType>
  </GeoRestriction>
</Restrictions>
<Staging>boolean</Staging>
<ViewerCertificate>
  <ACMCertificateArn>string</ACMCertificateArn>
  <Certificate>string</Certificate>
  <CertificateSource>string</CertificateSource>
  <CloudFrontDefaultCertificate>boolean</CloudFrontDefaultCertificate>

```

```
<IAMCertificateId>string</IAMCertificateId>
<MinimumProtocolVersion>string</MinimumProtocolVersion>
<SSLSupportMethod>string</SSLSupportMethod>
</ViewerCertificate>
<WebACLId>string</WebACLId>
</DistributionConfig>
<DomainName>string</DomainName>
<Id>string</Id>
<InProgressInvalidationBatches>integer</InProgressInvalidationBatches>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>
</Distribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### Distribution

Root level tag for the Distribution parameters.

Required: Yes

### ActiveTrustedKeyGroups

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

### ActiveTrustedSigners

#### **Important**

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

## AliasICPRecordals

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

## ARN

The distribution's Amazon Resource Name (ARN).

Type: String

## DistributionConfig

The distribution's configuration.

Type: [DistributionConfig](#) object

## DomainName

The distribution's CloudFront domain name. For example: `d111111abcdef8.cloudfront.net`.

Type: String

## Id

The distribution's identifier. For example: `E1U5RQF7T870K0`.

Type: String

## InProgressInvalidationBatches

The number of invalidation batches currently in progress.

Type: Integer

## LastModifiedTime

The date and time when the distribution was last modified.



Type: Timestamp

## **Status**

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **IllegalFieldLevelEncryptionConfigAssociationWithCacheBehavior**

The specified configuration for field-level encryption can't be associated with the specified cache behavior.

HTTP Status Code: 400

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidDefaultRootObject**

The default root object file name is too big or contains an invalid character.

HTTP Status Code: 400

### **InvalidErrorCode**

An invalid error code was specified.

HTTP Status Code: 400

### **InvalidForwardCookies**

Your request contains forward cookies option which doesn't match with the expectation for the `whitelisted` list of cookie names. Either list of cookie names has been specified when not allowed or list of cookie names is missing when expected.

HTTP Status Code: 400

### **InvalidFunctionAssociation**

A CloudFront function association is invalid.

HTTP Status Code: 400

### **InvalidGeoRestrictionParameter**

The specified geo restriction parameter is not valid.

HTTP Status Code: 400

### **InvalidHeadersForS3Origin**

The headers specified are not valid for an Amazon S3 origin.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The `If-Match` version is missing or not valid.

HTTP Status Code: 400

### **InvalidLambdaFunctionAssociation**

The specified Lambda@Edge function association is invalid.

HTTP Status Code: 400

### **InvalidLocationCode**

The location code specified is not valid.

HTTP Status Code: 400

### **InvalidMinimumProtocolVersion**

The minimum protocol version specified is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **InvalidOriginKeepaliveTimeout**

The keep alive timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidOriginReadTimeout**

The read timeout specified for the origin is not valid.

HTTP Status Code: 400

### **InvalidQueryStringParameters**

The query string parameters specified are not valid.

HTTP Status Code: 400

## InvalidRelativePath

The relative path is too big, is not URL-encoded, or does not begin with a slash (/).

HTTP Status Code: 400

## InvalidRequiredProtocol

This operation requires the HTTPS protocol. Ensure that you specify the HTTPS protocol in your request, or omit the `RequiredProtocols` element from your distribution configuration.

HTTP Status Code: 400

## InvalidResponseCode

A response code is not valid.

HTTP Status Code: 400

## InvalidTTLOrder

The TTL order specified is not valid.

HTTP Status Code: 400

## InvalidViewerCertificate

A viewer certificate specified is not valid.

HTTP Status Code: 400

## InvalidWebACLId

A web ACL ID specified is not valid. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/473e64fd-f30b-4765-81a0-62ad96dd167a`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `473e64fd-f30b-4765-81a0-62ad96dd167a`.

HTTP Status Code: 400

## MissingBody

This operation requires a body. Ensure that the body is present and the `Content-Type` header is set.

HTTP Status Code: 400

### **NoSuchCachePolicy**

The cache policy does not exist.

HTTP Status Code: 404

### **NoSuchDistribution**

The specified distribution does not exist.

HTTP Status Code: 404

### **NoSuchFieldLevelEncryptionConfig**

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

### **NoSuchOrigin**

No origin exists with the specified `Origin Id`.

HTTP Status Code: 404

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

### **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to `false`.

HTTP Status Code: 412

### **RealtimeLogConfigOwnerMismatch**

The specified real-time log configuration belongs to a different AWS account.

HTTP Status Code: 401

### **TooManyCacheBehaviors**

You cannot create more cache behaviors for the distribution.

HTTP Status Code: 400

### **TooManyCertificates**

You cannot create anymore custom SSL/TLS certificates.

HTTP Status Code: 400

### **TooManyCookieNamesInWhiteList**

Your request contains more cookie names in the whitelist than are allowed per cache behavior.

HTTP Status Code: 400

### **TooManyDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToCachePolicy**

The maximum number of distributions have been associated with the specified cache policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToFieldLevelEncryptionConfig**

The maximum number of distributions have been associated with the specified configuration for field-level encryption.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToKeyGroup**

The number of distributions that reference this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginAccessControl**

The maximum number of distributions have been associated with the specified origin access control.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToOriginRequestPolicy**

The maximum number of distributions have been associated with the specified origin request policy. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsAssociatedToResponseHeadersPolicy**

The maximum number of distributions have been associated with the specified response headers policy.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithFunctionAssociations**

You have reached the maximum number of distributions that are associated with a CloudFront function. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyDistributionsWithLambdaAssociations**

Processing your request would cause the maximum number of distributions with Lambda@Edge function associations per owner to be exceeded.

HTTP Status Code: 400

### **TooManyDistributionsWithSingleFunctionARN**

The maximum number of distributions have been associated with the specified Lambda@Edge function.

HTTP Status Code: 400

### **TooManyFunctionAssociations**

You have reached the maximum number of CloudFront function associations for this distribution. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyHeadersInForwardedValues**

Your request contains too many headers in forwarded values.

HTTP Status Code: 400

### **TooManyKeyGroupsAssociatedToDistribution**

The number of key groups referenced by this distribution is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyLambdaFunctionAssociations**

Your request contains more Lambda@Edge function associations than are allowed per distribution.

HTTP Status Code: 400

### **TooManyOriginCustomHeaders**

Your request contains too many origin custom headers.



HTTP Status Code: 400

### **TooManyOriginGroupsPerDistribution**

Processing your request would cause you to exceed the maximum number of origin groups allowed.

HTTP Status Code: 400

### **TooManyOrigins**

You cannot create more origins for the distribution.

HTTP Status Code: 400

### **TooManyQueryStringParameters**

Your request contains too many query string parameters.

HTTP Status Code: 400

### **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

### **TrustedKeyGroupDoesNotExist**

The specified key group does not exist.

HTTP Status Code: 400

### **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateFieldLevelEncryptionConfig

Service: Amazon CloudFront

Update a field-level encryption configuration.

## Request Syntax

```
PUT /2020-05-31/field-level-encryption/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <ContentTypeProfileConfig>
    <ContentTypeProfiles>
      <Items>
        <ContentTypeProfile>
          <ContentType>string</ContentType>
          <Format>string</Format>
          <ProfileId>string</ProfileId>
        </ContentTypeProfile>
      </Items>
      <Quantity>integer</Quantity>
    </ContentTypeProfiles>
    <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
  </ContentTypeProfileConfig>
  <QueryArgProfileConfig>
    <ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
    <QueryArgProfiles>
      <Items>
        <QueryArgProfile>
          <ProfileId>string</ProfileId>
          <QueryArg>string</QueryArg>
        </QueryArgProfile>
      </Items>
      <Quantity>integer</Quantity>
    </QueryArgProfiles>
  </QueryArgProfileConfig>
</FieldLevelEncryptionConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### FieldLevelEncryptionConfig

Root level tag for the FieldLevelEncryptionConfig parameters.

Required: Yes

### CallerReference

A unique number that ensures the request can't be replayed.

Type: String

Required: Yes

### Comment

An optional comment about the configuration. The comment cannot be longer than 128 characters.

Type: String

Required: No

### ContentTypeProfileConfig

A complex data type that specifies when to forward content if a content type isn't recognized and profiles to use as by default in a request if a query argument doesn't specify a profile to use.

Type: [ContentTypeProfileConfig](#) object

Required: No

### QueryArgProfileConfig

A complex data type that specifies when to forward content if a profile isn't found and the profile that can be provided as a query argument in a request.

Type: [QueryArgProfileConfig](#) object

Required: No

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryption>
  <FieldLevelEncryptionConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <ContentTypeProfileConfig>
      <ContentTypeProfiles>
        <Items>
          <ContentTypeProfile>
            <ContentType>string</ContentType>
            <Format>string</Format>
            <ProfileId>string</ProfileId>
          </ContentTypeProfile>
        </Items>
        <Quantity>integer</Quantity>
      </ContentTypeProfiles>
      <ForwardWhenContentTypeIsUnknown>boolean</ForwardWhenContentTypeIsUnknown>
    </ContentTypeProfileConfig>
    <QueryArgProfileConfig>
      <ForwardWhenQueryArgProfileIsUnknown>boolean</ForwardWhenQueryArgProfileIsUnknown>
      <QueryArgProfiles>
        <Items>
          <QueryArgProfile>
            <ProfileId>string</ProfileId>
            <QueryArg>string</QueryArg>
          </QueryArgProfile>
        </Items>
        <Quantity>integer</Quantity>
      </QueryArgProfiles>
    </QueryArgProfileConfig>
  </FieldLevelEncryptionConfig>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
</FieldLevelEncryption>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FieldLevelEncryption

Root level tag for the FieldLevelEncryption parameters.

Required: Yes

### FieldLevelEncryptionConfig

A complex data type that includes the profile configurations specified for field-level encryption.

Type: [FieldLevelEncryptionConfig](#) object

### Id

The configuration ID for a field-level encryption configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

### LastModifiedTime

The last time the field-level encryption configuration was changed.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of Quantity and the size of Items don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchFieldLevelEncryptionConfig**

The specified configuration for field-level encryption doesn't exist.

HTTP Status Code: 404

### **NoSuchFieldLevelEncryptionProfile**

The specified profile for field-level encryption doesn't exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### **QueryArgProfileEmpty**

No profile specified for the field-level encryption query argument.

HTTP Status Code: 400

### **TooManyFieldLevelEncryptionContentTypeProfiles**

The maximum number of content type profiles for field-level encryption have been created.

HTTP Status Code: 400

### **TooManyFieldLevelEncryptionQueryArgProfiles**

The maximum number of query arg profiles for field-level encryption have been created.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateFieldLevelEncryptionProfile

Service: Amazon CloudFront

Update a field-level encryption profile.

## Request Syntax

```
PUT /2020-05-31/field-level-encryption-profile/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfileConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <EncryptionEntities>
    <Items>
      <EncryptionEntity>
        <FieldPatterns>
          <Items>
            <FieldPattern>string</FieldPattern>
          </Items>
          <Quantity>integer</Quantity>
        </FieldPatterns>
        <ProviderId>string</ProviderId>
        <PublicKeyId>string</PublicKeyId>
      </EncryptionEntity>
    </Items>
    <Quantity>integer</Quantity>
  </EncryptionEntities>
  <Name>string</Name>
</FieldLevelEncryptionProfileConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [FieldLevelEncryptionProfileConfig](#)

Root level tag for the FieldLevelEncryptionProfileConfig parameters.

Required: Yes

### CallerReference

A unique number that ensures that the request can't be replayed.

Type: String

Required: Yes

### Comment

An optional comment for the field-level encryption profile. The comment cannot be longer than 128 characters.

Type: String

Required: No

### EncryptionEntities

A complex data type of encryption entities for the field-level encryption profile that include the public key ID, provider, and field patterns for specifying which fields to encrypt with this key.

Type: [EncryptionEntities](#) object

Required: Yes

### Name

Profile name for the field-level encryption profile.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FieldLevelEncryptionProfile>
  <FieldLevelEncryptionProfileConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
```

```

<EncryptionEntities>
  <Items>
    <EncryptionEntity>
      <FieldPatterns>
        <Items>
          <FieldPattern>string</FieldPattern>
        </Items>
      <Quantity>integer</Quantity>
    </FieldPatterns>
    <ProviderId>string</ProviderId>
    <PublicKeyId>string</PublicKeyId>
  </EncryptionEntity>
</Items>
<Quantity>integer</Quantity>
</EncryptionEntities>
<Name>string</Name>
</FieldLevelEncryptionProfileConfig>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
</FieldLevelEncryptionProfile>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FieldLevelEncryptionProfile

Root level tag for the FieldLevelEncryptionProfile parameters.

Required: Yes

### FieldLevelEncryptionProfileConfig

A complex data type that includes the profile name and the encryption entities for the field-level encryption profile.

Type: [FieldLevelEncryptionProfileConfig](#) object

### Id

The ID for a field-level encryption profile configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

### **LastModifiedTime**

The last time the field-level encryption profile was updated.

Type: Timestamp

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **FieldLevelEncryptionProfileAlreadyExists**

The specified profile for field-level encryption already exists.

HTTP Status Code: 409

### **FieldLevelEncryptionProfileSizeExceeded**

The maximum size of a profile for field-level encryption was exceeded.

HTTP Status Code: 400

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

## **NoSuchFieldLevelEncryptionProfile**

The specified profile for field-level encryption doesn't exist.

HTTP Status Code: 404

## **NoSuchPublicKey**

The specified public key doesn't exist.

HTTP Status Code: 404

## **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## **TooManyFieldLevelEncryptionEncryptionEntities**

The maximum number of encryption entities for field-level encryption have been created.

HTTP Status Code: 400

## **TooManyFieldLevelEncryptionFieldPatterns**

The maximum number of field patterns for field-level encryption have been created.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateFunction

Service: Amazon CloudFront

Updates a CloudFront function.

You can update a function's code or the comment that describes the function. You cannot update a function's name.

To update a function, you provide the function's name and version (ETag value) along with the updated function code. To get the name and version, you can use `ListFunctions` and `DescribeFunction`.

## Request Syntax

```
PUT /2020-05-31/function/Name HTTP/1.1
If-Match: IfMatch
<?xml version="1.0" encoding="UTF-8"?>
<UpdateFunctionRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <FunctionCode>blob</FunctionCode>
  <FunctionConfig>
    <Comment>string</Comment>
    <KeyValueStoreAssociations>
      <Items>
        <KeyValueStoreAssociation>
          <KeyValueStoreARN>string</KeyValueStoreARN>
        </KeyValueStoreAssociation>
      </Items>
    <Quantity>integer</Quantity>
  </KeyValueStoreAssociations>
  <Runtime>string</Runtime>
</FunctionConfig>
</UpdateFunctionRequest>
```

## URI Request Parameters

The request uses the following URI parameters.

### [If-Match](#)

The current version (ETag value) of the function that you are updating, which you can get using `DescribeFunction`.

Required: Yes

### Name

The name of the function that you are updating.

Required: Yes

## Request Body

The request accepts the following data in XML format.

### UpdateFunctionRequest

Root level tag for the UpdateFunctionRequest parameters.

Required: Yes

### FunctionCode

The function code. For more information about writing a CloudFront function, see [Writing function code for CloudFront Functions](#) in the *Amazon CloudFront Developer Guide*.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 40960.

Required: Yes

### FunctionConfig

Configuration information about the function.

Type: [FunctionConfig](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<FunctionSummary>
  <FunctionConfig>
```



```

<Comment>string</Comment>
<KeyValueStoreAssociations>
  <Items>
    <KeyValueStoreAssociation>
      <KeyValueStoreARN>string</KeyValueStoreARN>
    </KeyValueStoreAssociation>
  </Items>
  <Quantity>integer</Quantity>
</KeyValueStoreAssociations>
<Runtime>string</Runtime>
</FunctionConfig>
<FunctionMetadata>
  <CreatedTime>timestamp</CreatedTime>
  <FunctionARN>string</FunctionARN>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Stage>string</Stage>
</FunctionMetadata>
<Name>string</Name>
<Status>string</Status>
</FunctionSummary>

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### FunctionSummary

Root level tag for the FunctionSummary parameters.

Required: Yes

### FunctionConfig

Contains configuration information about a CloudFront function.

Type: [FunctionConfig](#) object

### FunctionMetadata

Contains metadata about a CloudFront function.

Type: [FunctionMetadata](#) object

## Name

The name of the CloudFront function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

## Status

The status of the CloudFront function.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **FunctionSizeLimitExceeded**

The function is too large. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 413

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchFunctionExists**

The function does not exist.

HTTP Status Code: 404

## PreconditionFailed

The precondition in one or more of the request fields evaluated to `false`.

HTTP Status Code: 412

## UnsupportedOperation

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateKeyGroup

Service: Amazon CloudFront

Updates a key group.

When you update a key group, all the fields are updated with the values provided in the request. You cannot update some fields independent of others. To update a key group:

1. Get the current key group with `GetKeyGroup` or `GetKeyGroupConfig`.
2. Locally modify the fields in the key group that you want to update. For example, add or remove public key IDs.
3. Call `UpdateKeyGroup` with the entire key group object, including the fields that you modified and those that you didn't.

## Request Syntax

```
PUT /2020-05-31/key-group/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroupConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <Items>
    <PublicKey>string</PublicKey>
  </Items>
  <Name>string</Name>
</KeyGroupConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [KeyGroupConfig](#)

Root level tag for the `KeyGroupConfig` parameters.

Required: Yes

## Comment

A comment to describe the key group. The comment cannot be longer than 128 characters.

Type: String

Required: No

## Items

A list of the identifiers of the public keys in the key group.

Type: Array of strings

Required: Yes

## Name

A name to identify the key group.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyGroup>
  <Id>string</Id>
  <KeyGroupConfig>
    <Comment>string</Comment>
    <Items>
      <PublicKey>string</PublicKey>
    </Items>
    <Name>string</Name>
  </KeyGroupConfig>
  <LastModifiedTime>timestamp</LastModifiedTime>
</KeyGroup>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### KeyGroup

Root level tag for the KeyGroup parameters.

Required: Yes

### Id

The identifier for the key group.

Type: String

### KeyGroupConfig

The key group configuration.

Type: [KeyGroupConfig](#) object

### LastModifiedTime

The date and time when the key group was last modified.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **KeyGroupAlreadyExists**

A key group with this name already exists. You must provide a unique name. To modify an existing key group, use `UpdateKeyGroup`.

HTTP Status Code: 409

### **NoSuchResource**

A resource that was specified is not valid.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

### **TooManyPublicKeysInKeyGroup**

The number of public keys in this key group is more than the maximum allowed. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateKeyValueStore

Service: Amazon CloudFront

Specifies the key value store to update.

## Request Syntax

```
PUT /2020-05-31/key-value-store/Name HTTP/1.1
If-Match: IfMatch
<?xml version="1.0" encoding="UTF-8"?>
<UpdateKeyValueStoreRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
</UpdateKeyValueStoreRequest>
```

## URI Request Parameters

The request uses the following URI parameters.

### [If-Match](#)

The key value store to update, if a match occurs.

Required: Yes

### [Name](#)

The name of the key value store to update.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-\_{1,64}

Required: Yes

## Request Body

The request accepts the following data in XML format.

### [UpdateKeyValueStoreRequest](#)

Root level tag for the UpdateKeyValueStoreRequest parameters.

Required: Yes



## Comment

The comment of the key value store to update.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<KeyValueStore>
  <ARN>string</ARN>
  <Comment>string</Comment>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Name>string</Name>
  <Status>string</Status>
</KeyValueStore>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### KeyValueStore

Root level tag for the KeyValueStore parameters.

Required: Yes

### ARN

The Amazon Resource Name (ARN) of the key value store.

Type: String

### Comment

A comment for the key value store.

Type: String

### Id

The unique Id for the key value store.

Type: String

### LastModifiedTime

The last-modified time of the key value store.

Type: Timestamp

### Name

The name of the key value store.

Type: String

### Status

The status of the key value store.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **EntityNotFound**

The entity was not found.

HTTP Status Code: 404

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

## **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## **UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateOriginAccessControl

Service: Amazon CloudFront

Updates a CloudFront origin access control.

## Request Syntax

```
PUT /2020-05-31/origin-access-control/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControlConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Description>string</Description>
  <Name>string</Name>
  <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
  <SigningBehavior>string</SigningBehavior>
  <SigningProtocol>string</SigningProtocol>
</OriginAccessControlConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [OriginAccessControlConfig](#)

Root level tag for the OriginAccessControlConfig parameters.

Required: Yes

#### [Description](#)

A description of the origin access control.

Type: String

Required: No

#### [Name](#)

A name to identify the origin access control. You can specify up to 64 characters.

Type: String

Required: Yes

### OriginAccessControlOriginType

The type of origin that this origin access control is for.

Type: String

Valid Values: s3 | mediastore | mediapackagev2 | lambda

Required: Yes

### SigningBehavior

Specifies which requests CloudFront signs (adds authentication information to). Specify `always` for the most common use case. For more information, see [origin access control advanced settings](#) in the *Amazon CloudFront Developer Guide*.

This field can have one of the following values:

- `always` – CloudFront signs all origin requests, overwriting the `Authorization` header from the viewer request if one exists.
- `never` – CloudFront doesn't sign any origin requests. This value turns off origin access control for all origins in all distributions that use this origin access control.
- `no-override` – If the viewer request doesn't contain the `Authorization` header, then CloudFront signs the origin request. If the viewer request contains the `Authorization` header, then CloudFront doesn't sign the origin request and instead passes along the `Authorization` header from the viewer request. **WARNING: To pass along the `Authorization` header from the viewer request, you *must* add the `Authorization` header to a [cache policy](#) for all cache behaviors that use origins associated with this origin access control.**

Type: String

Valid Values: never | always | no-override

Required: Yes

### SigningProtocol

The signing protocol of the origin access control, which determines how CloudFront signs (authenticates) requests. The only valid value is `sigv4`.

Type: String

Valid Values: sigv4

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginAccessControl>
  <Id>string</Id>
  <OriginAccessControlConfig>
    <Description>string</Description>
    <Name>string</Name>
    <OriginAccessControlOriginType>string</OriginAccessControlOriginType>
    <SigningBehavior>string</SigningBehavior>
    <SigningProtocol>string</SigningProtocol>
  </OriginAccessControlConfig>
</OriginAccessControl>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginAccessControl

Root level tag for the OriginAccessControl parameters.

Required: Yes

#### Id

The unique identifier of the origin access control.

Type: String

### OriginAccessControlConfig

The origin access control.

Type: [OriginAccessControlConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDenied

Access denied.

HTTP Status Code: 403

### IllegalUpdate

The update contains modifications that are not allowed.

HTTP Status Code: 400

### InvalidArgument

An argument is invalid.

HTTP Status Code: 400

### InvalidIfMatchVersion

The If-Match version is missing or not valid.

HTTP Status Code: 400

### NoSuchOriginAccessControl

The origin access control does not exist.

HTTP Status Code: 404

### OriginAccessControlAlreadyExists

An origin access control with the specified parameters already exists.

HTTP Status Code: 409

### PreconditionFailed

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateOriginRequestPolicy

Service: Amazon CloudFront

Updates an origin request policy configuration.

When you update an origin request policy configuration, all the fields are updated with the values provided in the request. You cannot update some fields independent of others. To update an origin request policy configuration:

1. Use `GetOriginRequestPolicyConfig` to get the current configuration.
2. Locally modify the fields in the origin request policy configuration that you want to update.
3. Call `UpdateOriginRequestPolicy` by providing the entire origin request policy configuration, including the fields that you modified and those that you didn't.

## Request Syntax

```
PUT /2020-05-31/origin-request-policy/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <CookiesConfig>
    <CookieBehavior>string</CookieBehavior>
    <Cookies>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Cookies>
  </CookiesConfig>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
      <Quantity>integer</Quantity>
    </Headers>
  </HeadersConfig>
  <Name>string</Name>
  <QueryStringConfig>
    <QueryStringBehavior>string</QueryStringBehavior>
```

```
<QueryStrings>
  <Items>
    <Name>string</Name>
  </Items>
  <Quantity>integer</Quantity>
</QueryStrings>
</QueryStringsConfig>
</OriginRequestPolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [OriginRequestPolicyConfig](#)

Root level tag for the OriginRequestPolicyConfig parameters.

Required: Yes

### [Comment](#)

A comment to describe the origin request policy. The comment cannot be longer than 128 characters.

Type: String

Required: No

### [CookiesConfig](#)

The cookies from viewer requests to include in origin requests.

Type: [OriginRequestPolicyCookiesConfig](#) object

Required: Yes

### [HeadersConfig](#)

The HTTP headers to include in origin requests. These can include headers from viewer requests and additional headers added by CloudFront.

Type: [OriginRequestPolicyHeadersConfig](#) object

Required: Yes

### Name

A unique name to identify the origin request policy.

Type: String

Required: Yes

### QueryStringsConfig

The URL query strings from viewer requests to include in origin requests.

Type: [OriginRequestPolicyQueryStringsConfig](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<OriginRequestPolicy>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <OriginRequestPolicyConfig>
    <Comment>string</Comment>
    <CookiesConfig>
      <CookieBehavior>string</CookieBehavior>
      <Cookies>
        <Items>
          <Name>string</Name>
        </Items>
        <Quantity>integer</Quantity>
      </Cookies>
    </CookiesConfig>
  <HeadersConfig>
    <HeaderBehavior>string</HeaderBehavior>
    <Headers>
      <Items>
        <Name>string</Name>
      </Items>
    </HeadersConfig>
  </OriginRequestPolicyConfig>
</OriginRequestPolicy>
```

```
    <Quantity>integer</Quantity>
  </Headers>
</HeadersConfig>
<Name>string</Name>
<QueryStringsConfig>
  <QueryStringBehavior>string</QueryStringBehavior>
  <QueryStrings>
    <Items>
      <Name>string</Name>
    </Items>
    <Quantity>integer</Quantity>
  </QueryStrings>
</QueryStringsConfig>
</OriginRequestPolicyConfig>
</OriginRequestPolicy>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### OriginRequestPolicy

Root level tag for the OriginRequestPolicy parameters.

Required: Yes

#### Id

The unique identifier for the origin request policy.

Type: String

#### LastModifiedTime

The date and time when the origin request policy was last modified.

Type: Timestamp

#### OriginRequestPolicyConfig

The origin request policy configuration.

Type: [OriginRequestPolicyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of Quantity and the size of Items don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchOriginRequestPolicy**

The origin request policy does not exist.

HTTP Status Code: 404

### **OriginRequestPolicyAlreadyExists**

An origin request policy with this name already exists. You must provide a unique name. To modify an existing origin request policy, use `UpdateOriginRequestPolicy`.

HTTP Status Code: 409

## PreconditionFailed

The precondition in one or more of the request fields evaluated to `false`.

HTTP Status Code: 412

## TooManyCookiesInOriginRequestPolicy

The number of cookies in the origin request policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyHeadersInOriginRequestPolicy

The number of headers in the origin request policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## TooManyQueryStringInOriginRequestPolicy

The number of query strings in the origin request policy exceeds the maximum. For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# UpdatePublicKey

Service: Amazon CloudFront

Update public key information. Note that the only value you can change is the comment.

## Request Syntax

```
PUT /2020-05-31/public-key/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<PublicKeyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <EncodedKey>string</EncodedKey>
  <Name>string</Name>
</PublicKeyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### PublicKeyConfig

Root level tag for the PublicKeyConfig parameters.

Required: Yes

### CallerReference

A string included in the request to help make sure that the request can't be replayed.

Type: String

Required: Yes

### Comment

A comment to describe the public key. The comment cannot be longer than 128 characters.

Type: String



Required: No

### EncodedKey

The public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: String

Required: Yes

### Name

A name to help identify the public key.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<PublicKey>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <PublicKeyConfig>
    <CallerReference>string</CallerReference>
    <Comment>string</Comment>
    <EncodedKey>string</EncodedKey>
    <Name>string</Name>
  </PublicKeyConfig>
</PublicKey>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### PublicKey

Root level tag for the PublicKey parameters.

Required: Yes

### **CreatedTime**

The date and time when the public key was uploaded.

Type: Timestamp

### **Id**

The identifier of the public key.

Type: String

### **PublicKeyConfig**

Configuration information about a public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: [PublicKeyConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CannotChangeImmutablePublicKeyFields**

You can't change the value of a public key.

HTTP Status Code: 400

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The If-Match version is missing or not valid.

HTTP Status Code: 400

### **NoSuchPublicKey**

The specified public key doesn't exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateRealtimeLogConfig

Service: Amazon CloudFront

Updates a real-time log configuration.

When you update a real-time log configuration, all the parameters are updated with the values provided in the request. You cannot update some parameters independent of others. To update a real-time log configuration:

1. Call `GetRealtimeLogConfig` to get the current real-time log configuration.
2. Locally modify the parameters in the real-time log configuration that you want to update.
3. Call this API (`UpdateRealtimeLogConfig`) by providing the entire real-time log configuration, including the parameters that you modified and those that you didn't.

You cannot update a real-time log configuration's Name or ARN.

## Request Syntax

```
PUT /2020-05-31/realtime-log-config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateRealtimeLogConfigRequest xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <ARN>string</ARN>
  <Endpoints>
    <EndPoint>
      <KinesisStreamConfig>
        <RoleARN>string</RoleARN>
        <StreamARN>string</StreamARN>
      </KinesisStreamConfig>
      <StreamType>string</StreamType>
    </EndPoint>
  </Endpoints>
  <Fields>
    <Field>string</Field>
  </Fields>
  <Name>string</Name>
  <SamplingRate>long</SamplingRate>
</UpdateRealtimeLogConfigRequest>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### UpdateRealtimeLogConfigRequest

Root level tag for the UpdateRealtimeLogConfigRequest parameters.

Required: Yes

### ARN

The Amazon Resource Name (ARN) for this real-time log configuration.

Type: String

Required: No

### EndPoints

Contains information about the Amazon Kinesis data stream where you are sending real-time log data.

Type: Array of [EndPoint](#) objects

Required: No

### Fields

A list of fields to include in each real-time log record.

For more information about fields, see [Real-time log configuration fields](#) in the *Amazon CloudFront Developer Guide*.

Type: Array of strings

Required: No

### Name

The name for this real-time log configuration.

Type: String

Required: No

### SamplingRate

The sampling rate for this real-time log configuration. The sampling rate determines the percentage of viewer requests that are represented in the real-time log data. You must provide an integer between 1 and 100, inclusive.

Type: Long

Required: No

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateRealtimeLogConfigResult>
  <RealtimeLogConfig>
    <ARN>string</ARN>
    <EndPoints>
      <EndPoint>
        <KinesisStreamConfig>
          <RoleARN>string</RoleARN>
          <StreamARN>string</StreamARN>
        </KinesisStreamConfig>
        <StreamType>string</StreamType>
      </EndPoint>
    </EndPoints>
    <Fields>
      <Field>string</Field>
    </Fields>
    <Name>string</Name>
    <SamplingRate>long</SamplingRate>
  </RealtimeLogConfig>
</UpdateRealtimeLogConfigResult>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

## UpdateRealtimeLogConfigResult

Root level tag for the UpdateRealtimeLogConfigResult parameters.

Required: Yes

## RealtimeLogConfig

A real-time log configuration.

Type: [RealtimeLogConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **NoSuchRealtimeLogConfig**

The real-time log configuration does not exist.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateResponseHeadersPolicy

Service: Amazon CloudFront

Updates a response headers policy.

When you update a response headers policy, the entire policy is replaced. You cannot update some policy fields independent of others. To update a response headers policy configuration:

1. Use `GetResponseHeadersPolicyConfig` to get the current policy's configuration.
2. Modify the fields in the response headers policy configuration that you want to update.
3. Call `UpdateResponseHeadersPolicy`, providing the entire response headers policy configuration, including the fields that you modified and those that you didn't.

## Request Syntax

```
PUT /2020-05-31/response-headers-policy/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicyConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Comment>string</Comment>
  <CorsConfig>
    <AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
    <AccessControlAllowHeaders>
      <Items>
        <Header>string</Header>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowHeaders>
    <AccessControlAllowMethods>
      <Items>
        <Method>string</Method>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowMethods>
    <AccessControlAllowOrigins>
      <Items>
        <Origin>string</Origin>
      </Items>
      <Quantity>integer</Quantity>
    </AccessControlAllowOrigins>
    <AccessControlExposeHeaders>
      <Items>
```

```

    <Header>string</Header>
  </Items>
  <Quantity>integer</Quantity>
</AccessControlExposeHeaders>
<AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
<OriginOverride>boolean</OriginOverride>
</CorsConfig>
<CustomHeadersConfig>
  <Items>
    <ResponseHeadersPolicyCustomHeader>
      <Header>string</Header>
      <Override>boolean</Override>
      <Value>string</Value>
    </ResponseHeadersPolicyCustomHeader>
  </Items>
  <Quantity>integer</Quantity>
</CustomHeadersConfig>
<Name>string</Name>
<RemoveHeadersConfig>
  <Items>
    <ResponseHeadersPolicyRemoveHeader>
      <Header>string</Header>
    </ResponseHeadersPolicyRemoveHeader>
  </Items>
  <Quantity>integer</Quantity>
</RemoveHeadersConfig>
<SecurityHeadersConfig>
  <ContentSecurityPolicy>
    <ContentSecurityPolicy>string</ContentSecurityPolicy>
    <Override>boolean</Override>
  </ContentSecurityPolicy>
  <ContentTypeOptions>
    <Override>boolean</Override>
  </ContentTypeOptions>
  <FrameOptions>
    <FrameOption>string</FrameOption>
    <Override>boolean</Override>
  </FrameOptions>
  <ReferrerPolicy>
    <Override>boolean</Override>
    <ReferrerPolicy>string</ReferrerPolicy>
  </ReferrerPolicy>
  <StrictTransportSecurity>
    <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>

```

```
<IncludeSubdomains>boolean</IncludeSubdomains>
<Override>boolean</Override>
<Preload>boolean</Preload>
</StrictTransportSecurity>
<XSSProtection>
  <ModeBlock>boolean</ModeBlock>
  <Override>boolean</Override>
  <Protection>boolean</Protection>
  <ReportUri>string</ReportUri>
</XSSProtection>
</SecurityHeadersConfig>
<ServerTimingHeadersConfig>
  <Enabled>boolean</Enabled>
  <SamplingRate>double</SamplingRate>
</ServerTimingHeadersConfig>
</ResponseHeadersPolicyConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [ResponseHeadersPolicyConfig](#)

Root level tag for the ResponseHeadersPolicyConfig parameters.

Required: Yes

### [Comment](#)

A comment to describe the response headers policy.

The comment cannot be longer than 128 characters.

Type: String

Required: No

### [CorsConfig](#)

A configuration for a set of HTTP response headers that are used for cross-origin resource sharing (CORS).

Type: [ResponseHeadersPolicyCorsConfig](#) object

Required: No

### [CustomHeadersConfig](#)

A configuration for a set of custom HTTP response headers.

Type: [ResponseHeadersPolicyCustomHeadersConfig](#) object

Required: No

### [Name](#)

A name to identify the response headers policy.

The name must be unique for response headers policies in this AWS account.

Type: String

Required: Yes

### [RemoveHeadersConfig](#)

A configuration for a set of HTTP headers to remove from the HTTP response.

Type: [ResponseHeadersPolicyRemoveHeadersConfig](#) object

Required: No

### [SecurityHeadersConfig](#)

A configuration for a set of security-related HTTP response headers.

Type: [ResponseHeadersPolicySecurityHeadersConfig](#) object

Required: No

### [ServerTimingHeadersConfig](#)

A configuration for enabling the Server-Timing header in HTTP responses sent from CloudFront.

Type: [ResponseHeadersPolicyServerTimingHeadersConfig](#) object

Required: No

## Response Syntax

```

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ResponseHeadersPolicy>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <ResponseHeadersPolicyConfig>
    <Comment>string</Comment>
    <CorsConfig>
      <AccessControlAllowCredentials>boolean</AccessControlAllowCredentials>
      <AccessControlAllowHeaders>
        <Items>
          <Header>string</Header>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlAllowHeaders>
      <AccessControlAllowMethods>
        <Items>
          <Method>string</Method>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlAllowMethods>
      <AccessControlAllowOrigins>
        <Items>
          <Origin>string</Origin>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlAllowOrigins>
      <AccessControlExposeHeaders>
        <Items>
          <Header>string</Header>
        </Items>
        <Quantity>integer</Quantity>
      </AccessControlExposeHeaders>
      <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
      <OriginOverride>boolean</OriginOverride>
    </CorsConfig>
    <CustomHeadersConfig>
      <Items>
        <ResponseHeadersPolicyCustomHeader>
          <Header>string</Header>
          <Override>boolean</Override>
        </ResponseHeadersPolicyCustomHeader>
      </Items>
    </CustomHeadersConfig>
  </ResponseHeadersPolicyConfig>
</ResponseHeadersPolicy>

```

```

        <Value>string</Value>
    </ResponseHeadersPolicyCustomHeader>
</Items>
    <Quantity>integer</Quantity>
</CustomHeadersConfig>
<Name>string</Name>
<RemoveHeadersConfig>
    <Items>
        <ResponseHeadersPolicyRemoveHeader>
            <Header>string</Header>
        </ResponseHeadersPolicyRemoveHeader>
    </Items>
    <Quantity>integer</Quantity>
</RemoveHeadersConfig>
<SecurityHeadersConfig>
    <ContentSecurityPolicy>
        <ContentSecurityPolicy>string</ContentSecurityPolicy>
        <Override>boolean</Override>
    </ContentSecurityPolicy>
    <ContentTypeOptions>
        <Override>boolean</Override>
    </ContentTypeOptions>
    <FrameOptions>
        <FrameOption>string</FrameOption>
        <Override>boolean</Override>
    </FrameOptions>
    <ReferrerPolicy>
        <Override>boolean</Override>
        <ReferrerPolicy>string</ReferrerPolicy>
    </ReferrerPolicy>
    <StrictTransportSecurity>
        <AccessControlMaxAgeSec>integer</AccessControlMaxAgeSec>
        <IncludeSubdomains>boolean</IncludeSubdomains>
        <Override>boolean</Override>
        <Preload>boolean</Preload>
    </StrictTransportSecurity>
    <XSSProtection>
        <ModeBlock>boolean</ModeBlock>
        <Override>boolean</Override>
        <Protection>boolean</Protection>
        <ReportUri>string</ReportUri>
    </XSSProtection>
</SecurityHeadersConfig>
<ServerTimingHeadersConfig>

```

```
<Enabled>boolean</Enabled>  
<SamplingRate>double</SamplingRate>  
</ServerTimingHeadersConfig>  
</ResponseHeadersPolicyConfig>  
</ResponseHeadersPolicy>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### [ResponseHeadersPolicy](#)

Root level tag for the ResponseHeadersPolicy parameters.

Required: Yes

#### [Id](#)

The identifier for the response headers policy.

Type: String

#### [LastModifiedTime](#)

The date and time when the response headers policy was last modified.

Type: Timestamp

#### [ResponseHeadersPolicyConfig](#)

A response headers policy configuration.

Type: [ResponseHeadersPolicyConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

## **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

## **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

## **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

## **InvalidIfMatchVersion**

The `If-Match` version is missing or not valid.

HTTP Status Code: 400

## **NoSuchResponseHeadersPolicy**

The response headers policy does not exist.

HTTP Status Code: 404

## **PreconditionFailed**

The precondition in one or more of the request fields evaluated to false.

HTTP Status Code: 412

## **ResponseHeadersPolicyAlreadyExists**

A response headers policy with this name already exists. You must provide a unique name. To modify an existing response headers policy, use `UpdateResponseHeadersPolicy`.

HTTP Status Code: 409

## **TooLongCSPIInResponseHeadersPolicy**

The length of the `Content-Security-Policy` header value in the response headers policy exceeds the maximum.



For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyCustomHeadersInResponseHeadersPolicy**

The number of custom headers in the response headers policy exceeds the maximum.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

### **TooManyRemoveHeadersInResponseHeadersPolicy**

The number of headers in `RemoveHeadersConfig` in the response headers policy exceeds the maximum.

For more information, see [Quotas](#) (formerly known as limits) in the *Amazon CloudFront Developer Guide*.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateStreamingDistribution

Service: Amazon CloudFront

Update a streaming distribution.

## Request Syntax

```
PUT /2020-05-31/streaming-distribution/Id/config HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistributionConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <Enabled>boolean</Enabled>
  <Logging>
    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <Prefix>string</Prefix>
  </Logging>
  <PriceClass>string</PriceClass>
  <S3Origin>
    <DomainName>string</DomainName>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3Origin>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>
    <Quantity>integer</Quantity>
  </TrustedSigners>
</StreamingDistributionConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### StreamingDistributionConfig

Root level tag for the StreamingDistributionConfig parameters.

Required: Yes

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this streaming distribution.

Type: [Aliases](#) object

Required: No

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of CallerReference is new (regardless of the content of the StreamingDistributionConfig object), CloudFront creates a new distribution.

If CallerReference is a value that you already sent in a previous request to create a distribution, CloudFront returns a DistributionAlreadyExists error.

Type: String

Required: Yes

### Comment

Any comments you want to include about the streaming distribution.

Type: String

Required: Yes

### Enabled

Whether the streaming distribution is enabled to accept user requests for content.

Type: Boolean

Required: Yes

### Logging

A complex type that controls whether access logs are written for the streaming distribution.

Type: [StreamingLoggingConfig](#) object

Required: No

### PriceClass

A complex type that contains information about price class for this streaming distribution.

Type: String

Valid Values: PriceClass\_100 | PriceClass\_200 | PriceClass\_All

Required: No

### S3Origin

A complex type that contains information about the Amazon S3 bucket from which you want CloudFront to get your media files for distribution.

Type: [S3Origin](#) object

Required: Yes

### TrustedSigners

A complex type that specifies any AWS accounts that you want to permit to create signed URLs for private content. If you want the distribution to use signed URLs, include this element; if you want the distribution to use public URLs, remove this element. For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<StreamingDistribution>
  <ActiveTrustedSigners>
```

```

<Enabled>boolean</Enabled>
<Items>
  <Signer>
    <AwsAccountNumber>string</AwsAccountNumber>
    <KeyPairIds>
      <Items>
        <KeyPairId>string</KeyPairId>
      </Items>
      <Quantity>integer</Quantity>
    </KeyPairIds>
  </Signer>
</Items>
<Quantity>integer</Quantity>
</ActiveTrustedSigners>
<ARN>string</ARN>
<DomainName>string</DomainName>
<Id>string</Id>
<LastModifiedTime>timestamp</LastModifiedTime>
<Status>string</Status>
<StreamingDistributionConfig>
  <Aliases>
    <Items>
      <CNAME>string</CNAME>
    </Items>
    <Quantity>integer</Quantity>
  </Aliases>
  <CallerReference>string</CallerReference>
  <Comment>string</Comment>
  <Enabled>boolean</Enabled>
  <Logging>
    <Bucket>string</Bucket>
    <Enabled>boolean</Enabled>
    <Prefix>string</Prefix>
  </Logging>
  <PriceClass>string</PriceClass>
  <S3Origin>
    <DomainName>string</DomainName>
    <OriginAccessIdentity>string</OriginAccessIdentity>
  </S3Origin>
  <TrustedSigners>
    <Enabled>boolean</Enabled>
    <Items>
      <AwsAccountNumber>string</AwsAccountNumber>
    </Items>

```

```
<Quantity>integer</Quantity>
</TrustedSigners>
</StreamingDistributionConfig>
</StreamingDistribution>
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

### StreamingDistribution

Root level tag for the StreamingDistribution parameters.

Required: Yes

### ActiveTrustedSigners

A complex type that lists the AWS accounts, if any, that you included in the TrustedSigners complex type for this distribution. These are the accounts that you want to allow to create signed URLs for private content.

The Signer complex type lists the AWS account number of the trusted signer or self if the signer is the AWS account that created the distribution. The Signer element also includes the IDs of any active CloudFront key pairs that are associated with the trusted signer's AWS account. If no KeyPairId element appears for a Signer, that signer can't create signed URLs.

For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [ActiveTrustedSigners](#) object

### ARN

The ARN (Amazon Resource Name) for the distribution. For example: `arn:aws:cloudfront::123456789012:distribution/EDFDVBD632BHDS5`, where 123456789012 is your AWS account ID.

Type: String

### DomainName

The domain name that corresponds to the streaming distribution, for example, `s5c39gqb8ow64r.cloudfront.net`.

Type: String

### **Id**

The identifier for the RTMP distribution. For example: EGTXBD79EXAMPLE.

Type: String

### **LastModifiedTime**

The date and time that the distribution was last modified.

Type: Timestamp

### **Status**

The current status of the RTMP distribution. When the status is Deployed, the distribution's information is propagated to all CloudFront edge locations.

Type: String

### **StreamingDistributionConfig**

The current configuration information for the RTMP distribution.

Type: [StreamingDistributionConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CNAMEAlreadyExists**

The CNAME specified is already defined for CloudFront.

HTTP Status Code: 409

### **IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

### **InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

### **InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

### **InvalidIfMatchVersion**

The `If-Match` version is missing or not valid.

HTTP Status Code: 400

### **InvalidOriginAccessControl**

The origin access control is not valid.

HTTP Status Code: 400

### **InvalidOriginAccessIdentity**

The origin access identity is not valid or doesn't exist.

HTTP Status Code: 400

### **MissingBody**

This operation requires a body. Ensure that the body is present and the `Content-Type` header is set.

HTTP Status Code: 400

### **NoSuchStreamingDistribution**

The specified streaming distribution does not exist.

HTTP Status Code: 404

### **PreconditionFailed**

The precondition in one or more of the request fields evaluated to `false`.



HTTP Status Code: 412

### **TooManyStreamingDistributionCNAMEs**

Your request contains more CNAMEs than are allowed per distribution.

HTTP Status Code: 400

### **TooManyTrustedSigners**

Your request contains more trusted signers than are allowed per distribution.

HTTP Status Code: 400

### **TrustedSignerDoesNotExist**

One or more of your trusted signers don't exist.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateVpcOrigin

Service: Amazon CloudFront

Update an Amazon CloudFront VPC origin in your account.

## Request Syntax

```
PUT /2020-05-31/vpc-origin/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<VpcOriginEndpointConfig xmlns="http://cloudfront.amazonaws.com/doc/2020-05-31/">
  <Arn>string</Arn>
  <HTTPPort>integer</HTTPPort>
  <HTTPSPort>integer</HTTPSPort>
  <Name>string</Name>
  <OriginProtocolPolicy>string</OriginProtocolPolicy>
  <OriginSslProtocols>
    <Items>
      <SslProtocol>string</SslProtocol>
    </Items>
    <Quantity>integer</Quantity>
  </OriginSslProtocols>
</VpcOriginEndpointConfig>
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in XML format.

### [VpcOriginEndpointConfig](#)

Root level tag for the VpcOriginEndpointConfig parameters.

Required: Yes

### [Arn](#)

The ARN of the CloudFront VPC origin endpoint configuration.

Type: String

Required: Yes

### HTTPPort

The HTTP port for the CloudFront VPC origin endpoint configuration.

Type: Integer

Required: Yes

### HTTPSPort

The HTTPS port of the CloudFront VPC origin endpoint configuration.

Type: Integer

Required: Yes

### Name

The name of the CloudFront VPC origin endpoint configuration.

Type: String

Required: Yes

### OriginProtocolPolicy

The origin protocol policy for the CloudFront VPC origin endpoint configuration.

Type: String

Valid Values: http-only | match-viewer | https-only

Required: Yes

### OriginSslProtocols

A complex type that contains information about the SSL/TLS protocols that CloudFront can use when establishing an HTTPS connection with your origin.

Type: [OriginSslProtocols](#) object

Required: No

## Response Syntax

```
HTTP/1.1 202
```

```
<?xml version="1.0" encoding="UTF-8"?>
<VpcOrigin>
  <Arn>string</Arn>
  <CreatedTime>timestamp</CreatedTime>
  <Id>string</Id>
  <LastModifiedTime>timestamp</LastModifiedTime>
  <Status>string</Status>
  <VpcOriginEndpointConfig>
    <Arn>string</Arn>
    <HTTPPort>integer</HTTPPort>
    <HTTPSPort>integer</HTTPSPort>
    <Name>string</Name>
    <OriginProtocolPolicy>string</OriginProtocolPolicy>
    <OriginSslProtocols>
      <Items>
        <SslProtocol>string</SslProtocol>
      </Items>
      <Quantity>integer</Quantity>
    </OriginSslProtocols>
  </VpcOriginEndpointConfig>
</VpcOrigin>
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

The following data is returned in XML format by the service.

### VpcOrigin

Root level tag for the VpcOrigin parameters.

Required: Yes

### Arn

The VPC origin ARN.

Type: String

### CreatedTime

The VPC origin created time.

Type: Timestamp

## **Id**

The VPC origin ID.

Type: String

## **LastModifiedTime**

The VPC origin last modified time.

Type: Timestamp

## **Status**

The VPC origin status.

Type: String

## **VpcOriginEndpointConfig**

The VPC origin endpoint configuration.

Type: [VpcOriginEndpointConfig](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDenied**

Access denied.

HTTP Status Code: 403

### **CannotUpdateEntityWhileInUse**

The entity cannot be updated while it is in use.

HTTP Status Code: 409

### **EntityAlreadyExists**

The entity already exists. You must provide a unique entity.

HTTP Status Code: 409

**EntityLimitExceeded**

The entity limit has been exceeded.

HTTP Status Code: 400

**EntityNotFound**

The entity was not found.

HTTP Status Code: 404

**IllegalUpdate**

The update contains modifications that are not allowed.

HTTP Status Code: 400

**InconsistentQuantities**

The value of `Quantity` and the size of `Items` don't match.

HTTP Status Code: 400

**InvalidArgument**

An argument is invalid.

HTTP Status Code: 400

**InvalidIfMatchVersion**

The `If-Match` version is missing or not valid.

HTTP Status Code: 400

**PreconditionFailed**

The precondition in one or more of the request fields evaluated to `false`.

HTTP Status Code: 412

**UnsupportedOperation**

This operation is not supported in this region.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## Amazon CloudFront KeyValueCollection

The following actions are supported by Amazon CloudFront KeyValueCollection:

- [DeleteKey](#)
- [DescribeKeyValueCollection](#)
- [GetKey](#)
- [ListKeys](#)
- [PutKey](#)
- [UpdateKeys](#)

# DeleteKey

Service: Amazon CloudFront KeyValueStore

Deletes the key-value pair specified by the key.

## Request Syntax

```
DELETE /key-value-stores/KvsARN/keys/Key HTTP/1.1  
If-Match: IfMatch
```

## URI Request Parameters

The request uses the following URI parameters.

### IfMatch

The current version (ETag) of the key value store that you are deleting keys from, which you can get by using the DescribeKeyValueStore API operation.

Required: Yes

### Key

The key to delete.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```



```
ETag: ETag
Content-type: application/json

{
  "ItemCount": number,
  "TotalSizeInBytes": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

### ETag

The current version identifier of the key value store after the successful delete.

The following data is returned in JSON format by the service.

### ItemCount

Number of key-value pairs in the key value store after the successful delete.

Type: Integer

### TotalSizeInBytes

Total size of the key value store after the successful delete, in bytes.

Type: Long

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Access denied.

HTTP Status Code: 403

## **ConflictException**

Resource is not in expected state.

HTTP Status Code: 409

## **InternalServerErrorException**

Internal server error.

HTTP Status Code: 500

## **ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

Limit exceeded.

HTTP Status Code: 402

## **ValidationException**

Validation failed.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeKeyValueStore

Service: Amazon CloudFront KeyValueStore

Returns metadata information about the key value store.

## Request Syntax

```
GET /key-value-stores/KvsARN HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
ETag: ETag
Content-type: application/json

{
  "Created": number,
  "FailureReason": "string",
  "ItemCount": number,
  "KvsARN": "string",
  "LastModified": number,
  "Status": "string",
  "TotalSizeInBytes": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

### ETag

The version identifier for the current version of the key value store.

The following data is returned in JSON format by the service.

### Created

Date and time when the key value store was created.

Type: Timestamp

### FailureReason

The reason why the key value store wasn't created.

Type: String

### ItemCount

Number of key-value pairs in the key value store.

Type: Integer

### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

### LastModified

Date and time when the key-value pairs in the key value store was last modified.

Type: Timestamp

### Status

The current status of the key value store.

Type: String

### **TotalSizeInBytes**

Total size of the key value store in bytes.

Type: Long

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Access denied.

HTTP Status Code: 403

### **ConflictException**

Resource is not in expected state.

HTTP Status Code: 409

### **InternalServerError**

Internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 404

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetKey

Service: Amazon CloudFront KeyValueStore

Returns a key-value pair.

## Request Syntax

```
GET /key-value-stores/KvsARN/keys/Key HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Key

The key to get.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "ItemCount": number,
  "Key": "string",
  "TotalSizeInBytes": number,
```



```
"Value": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### ItemCount

Number of key-value pairs in the key value store.

Type: Integer

### Key

The key of the key-value pair.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

### TotalSizeInBytes

Total size of the key value store in bytes.

Type: Long

### Value

The value of the key-value pair.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Access denied.

HTTP Status Code: 403

## ConflictException

Resource is not in expected state.

HTTP Status Code: 409

## InternalServerErrorException

Internal server error.

HTTP Status Code: 500

## ResourceNotFoundException

Resource was not found.

HTTP Status Code: 404

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## ListKeys

Service: Amazon CloudFront KeyValueStore

Returns a list of key-value pairs.

### Request Syntax

```
GET /key-value-stores/KvsARN/keys?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

### URI Request Parameters

The request uses the following URI parameters.

#### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

#### MaxResults

Maximum number of results that are returned per call. The default is 10 and maximum allowed page is 50.

Valid Range: Minimum value of 1. Maximum value of 50.

#### NextToken

If nextToken is returned in the response, there are more results available. Make the next call using the returned token to retrieve the next page.

### Request Body

The request does not have a request body.

### Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "Items": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Items

The key-value pairs.

Type: Array of [ListKeysResponseListItem](#) objects

### NextToken

If nextToken is returned in the response, there are more results available. Make the next call using the returned token to retrieve the next page.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Access denied.

HTTP Status Code: 403

### **ConflictException**

Resource is not in expected state.

HTTP Status Code: 409

## InternalServerErrorException

Internal server error.

HTTP Status Code: 500

## ResourceNotFoundException

Resource was not found.

HTTP Status Code: 404

## ValidationException

Validation failed.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutKey

Service: Amazon CloudFront KeyValueStore

Creates a new key-value pair or replaces the value of an existing key.

## Request Syntax

```
PUT /key-value-stores/KvsARN/keys/Key HTTP/1.1
If-Match: IfMatch
Content-type: application/json

{
  "Value": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### IfMatch

The current version (ETag) of the key value store that you are putting keys into, which you can get by using the DescribeKeyValueStore API operation.

Required: Yes

### Key

The key to put.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Value

The value to put.

Type: String

Required: Yes

## Response Syntax

```
HTTP/1.1 200
ETag: ETag
Content-type: application/json

{
  "ItemCount": number,
  "TotalSizeInBytes": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

### ETag

The current version identifier of the key value store after the successful put.

The following data is returned in JSON format by the service.

### ItemCount

Number of key-value pairs in the key value store after the successful put.

Type: Integer

## **TotalSizeInBytes**

Total size of the key value store after the successful put, in bytes.

Type: Long

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Access denied.

HTTP Status Code: 403

### **ConflictException**

Resource is not in expected state.

HTTP Status Code: 409

### **InternalServerErrorException**

Internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Limit exceeded.

HTTP Status Code: 402

### **ValidationException**

Validation failed.

HTTP Status Code: 400



## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateKeys

Service: Amazon CloudFront KeyValueStore

Puts or deletes multiple key-value pairs in a single, all-or-nothing operation.

## Request Syntax

```
POST /key-value-stores/KvsARN/keys HTTP/1.1
```

```
If-Match: IfMatch
```

```
Content-type: application/json
```

```
{
  "Deletes": [
    {
      "Key": "string"
    }
  ],
  "Puts": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### IfMatch

The current version (ETag) of the key value store that you are updating keys of, which you can get by using the DescribeKeyValueStore API operation.

Required: Yes

### KvsARN

The Amazon Resource Name (ARN) of the key value store.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Deletes

List of keys to delete.

Type: Array of [DeleteKeyRequestListItem](#) objects

Required: No

### Puts

List of key-value pairs to put.

Type: Array of [PutKeyRequestListItem](#) objects

Required: No

## Response Syntax

```
HTTP/1.1 200
ETag: ETag
Content-type: application/json

{
  "ItemCount": number,
  "TotalSizeInBytes": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following HTTP headers.

### ETag

The current version identifier of the key value store after the successful update.

The following data is returned in JSON format by the service.

## **ItemCount**

Number of key-value pairs in the key value store after the successful update.

Type: Integer

## **TotalSizeInBytes**

Total size of the key value store after the successful update, in bytes.

Type: Long

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Access denied.

HTTP Status Code: 403

### **ConflictException**

Resource is not in expected state.

HTTP Status Code: 409

### **InternalServerErrorException**

Internal server error.

HTTP Status Code: 500

### **ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Limit exceeded.

HTTP Status Code: 402

## ValidationException

Validation failed.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The following data types are supported by Amazon CloudFront:

- [ActiveTrustedKeyGroups](#)
- [ActiveTrustedSigners](#)
- [Aliases](#)
- [AliasICPRecordal](#)
- [AllowedMethods](#)
- [AnycastIpList](#)
- [AnycastIpListCollection](#)
- [AnycastIpListSummary](#)
- [CacheBehavior](#)
- [CacheBehaviors](#)
- [CachedMethods](#)
- [CachePolicy](#)
- [CachePolicyConfig](#)
- [CachePolicyCookiesConfig](#)
- [CachePolicyHeadersConfig](#)
- [CachePolicyList](#)
- [CachePolicyQueryStringsConfig](#)
- [CachePolicySummary](#)
- [CloudFrontOriginAccessIdentity](#)
- [CloudFrontOriginAccessIdentityConfig](#)
- [CloudFrontOriginAccessIdentityList](#)
- [CloudFrontOriginAccessIdentitySummary](#)
- [ConflictingAlias](#)
- [ConflictingAliasesList](#)
- [ContentTypeProfile](#)
- [ContentTypeProfileConfig](#)

- [ContentTypeProfiles](#)
- [ContinuousDeploymentPolicy](#)
- [ContinuousDeploymentPolicyConfig](#)
- [ContinuousDeploymentPolicyList](#)
- [ContinuousDeploymentPolicySummary](#)
- [ContinuousDeploymentSingleHeaderConfig](#)
- [ContinuousDeploymentSingleWeightConfig](#)
- [CookieNames](#)
- [CookiePreference](#)
- [CustomErrorResponse](#)
- [CustomErrorResponses](#)
- [CustomHeaders](#)
- [CustomOriginConfig](#)
- [DefaultCacheBehavior](#)
- [Distribution](#)
- [DistributionConfig](#)
- [DistributionConfigWithTags](#)
- [DistributionIdList](#)
- [DistributionList](#)
- [DistributionSummary](#)
- [EncryptionEntities](#)
- [EncryptionEntity](#)
- [EndPoint](#)
- [FieldLevelEncryption](#)
- [FieldLevelEncryptionConfig](#)
- [FieldLevelEncryptionList](#)
- [FieldLevelEncryptionProfile](#)
- [FieldLevelEncryptionProfileConfig](#)
- [FieldLevelEncryptionProfileList](#)
- [FieldLevelEncryptionProfileSummary](#)

- [FieldLevelEncryptionSummary](#)
- [FieldPatterns](#)
- [ForwardedValues](#)
- [FunctionAssociation](#)
- [FunctionAssociations](#)
- [FunctionConfig](#)
- [FunctionList](#)
- [FunctionMetadata](#)
- [FunctionSummary](#)
- [GeoRestriction](#)
- [GrpcConfig](#)
- [Headers](#)
- [ImportSource](#)
- [Invalidation](#)
- [InvalidationBatch](#)
- [InvalidationList](#)
- [InvalidationSummary](#)
- [KeyGroup](#)
- [KeyGroupConfig](#)
- [KeyGroupList](#)
- [KeyGroupSummary](#)
- [KeyPairIds](#)
- [KeyValueStore](#)
- [KeyValueStoreAssociation](#)
- [KeyValueStoreAssociations](#)
- [KeyValueStoreList](#)
- [KGKeyPairIds](#)
- [KinesisStreamConfig](#)
- [LambdaFunctionAssociation](#)
- [LambdaFunctionAssociations](#)



- [LoggingConfig](#)
- [MonitoringSubscription](#)
- [Origin](#)
- [OriginAccessControl](#)
- [OriginAccessControlConfig](#)
- [OriginAccessControlList](#)
- [OriginAccessControlSummary](#)
- [OriginCustomHeader](#)
- [OriginGroup](#)
- [OriginGroupFailoverCriteria](#)
- [OriginGroupMember](#)
- [OriginGroupMembers](#)
- [OriginGroups](#)
- [OriginRequestPolicy](#)
- [OriginRequestPolicyConfig](#)
- [OriginRequestPolicyCookiesConfig](#)
- [OriginRequestPolicyHeadersConfig](#)
- [OriginRequestPolicyList](#)
- [OriginRequestPolicyQueryStringsConfig](#)
- [OriginRequestPolicySummary](#)
- [Origins](#)
- [OriginShield](#)
- [OriginSslProtocols](#)
- [ParametersInCacheKeyAndForwardedToOrigin](#)
- [Paths](#)
- [PublicKey](#)
- [PublicKeyConfig](#)
- [PublicKeyList](#)
- [PublicKeySummary](#)
- [QueryArgProfile](#)

- [QueryArgProfileConfig](#)
- [QueryArgProfiles](#)
- [QueryStringCacheKeys](#)
- [QueryStringNames](#)
- [RealtimeLogConfig](#)
- [RealtimeLogConfigs](#)
- [RealtimeMetricsSubscriptionConfig](#)
- [ResponseHeadersPolicy](#)
- [ResponseHeadersPolicyAccessControlAllowHeaders](#)
- [ResponseHeadersPolicyAccessControlAllowMethods](#)
- [ResponseHeadersPolicyAccessControlAllowOrigins](#)
- [ResponseHeadersPolicyAccessControlExposeHeaders](#)
- [ResponseHeadersPolicyConfig](#)
- [ResponseHeadersPolicyContentSecurityPolicy](#)
- [ResponseHeadersPolicyContentTypeOptions](#)
- [ResponseHeadersPolicyCorsConfig](#)
- [ResponseHeadersPolicyCustomHeader](#)
- [ResponseHeadersPolicyCustomHeadersConfig](#)
- [ResponseHeadersPolicyFrameOptions](#)
- [ResponseHeadersPolicyList](#)
- [ResponseHeadersPolicyReferrerPolicy](#)
- [ResponseHeadersPolicyRemoveHeader](#)
- [ResponseHeadersPolicyRemoveHeadersConfig](#)
- [ResponseHeadersPolicySecurityHeadersConfig](#)
- [ResponseHeadersPolicyServerTimingHeadersConfig](#)
- [ResponseHeadersPolicyStrictTransportSecurity](#)
- [ResponseHeadersPolicySummary](#)
- [ResponseHeadersPolicyXSSProtection](#)
- [Restrictions](#)
- [S3Origin](#)

- [S3OriginConfig](#)
- [SessionStickinessConfig](#)
- [Signer](#)
- [StagingDistributionDnsNames](#)
- [StatusCodes](#)
- [StreamingDistribution](#)
- [StreamingDistributionConfig](#)
- [StreamingDistributionConfigWithTags](#)
- [StreamingDistributionList](#)
- [StreamingDistributionSummary](#)
- [StreamingLoggingConfig](#)
- [Tag](#)
- [TagKeys](#)
- [Tags](#)
- [TestResult](#)
- [TrafficConfig](#)
- [TrustedKeyGroups](#)
- [TrustedSigners](#)
- [ViewerCertificate](#)
- [VpcOrigin](#)
- [VpcOriginConfig](#)
- [VpcOriginEndpointConfig](#)
- [VpcOriginList](#)
- [VpcOriginSummary](#)

The following data types are supported by Amazon CloudFront KeyValueCollection:

- [DeleteKeyRequestListItem](#)
- [ListKeysResponseListItem](#)
- [PutKeyRequestListItem](#)

# Amazon CloudFront

The following data types are supported by Amazon CloudFront:

- [ActiveTrustedKeyGroups](#)
- [ActiveTrustedSigners](#)
- [Aliases](#)
- [AliasICPRecordal](#)
- [AllowedMethods](#)
- [AnycastIpList](#)
- [AnycastIpListCollection](#)
- [AnycastIpListSummary](#)
- [CacheBehavior](#)
- [CacheBehaviors](#)
- [CachedMethods](#)
- [CachePolicy](#)
- [CachePolicyConfig](#)
- [CachePolicyCookiesConfig](#)
- [CachePolicyHeadersConfig](#)
- [CachePolicyList](#)
- [CachePolicyQueryStringConfig](#)
- [CachePolicySummary](#)
- [CloudFrontOriginAccessIdentity](#)
- [CloudFrontOriginAccessIdentityConfig](#)
- [CloudFrontOriginAccessIdentityList](#)
- [CloudFrontOriginAccessIdentitySummary](#)
- [ConflictingAlias](#)
- [ConflictingAliasesList](#)
- [ContentTypeProfile](#)
- [ContentTypeProfileConfig](#)
- [ContentTypeProfiles](#)

- [ContinuousDeploymentPolicy](#)
- [ContinuousDeploymentPolicyConfig](#)
- [ContinuousDeploymentPolicyList](#)
- [ContinuousDeploymentPolicySummary](#)
- [ContinuousDeploymentSingleHeaderConfig](#)
- [ContinuousDeploymentSingleWeightConfig](#)
- [CookieNames](#)
- [CookiePreference](#)
- [CustomErrorResponse](#)
- [CustomErrorResponses](#)
- [CustomHeaders](#)
- [CustomOriginConfig](#)
- [DefaultCacheBehavior](#)
- [Distribution](#)
- [DistributionConfig](#)
- [DistributionConfigWithTags](#)
- [DistributionIdList](#)
- [DistributionList](#)
- [DistributionSummary](#)
- [EncryptionEntities](#)
- [EncryptionEntity](#)
- [EndPoint](#)
- [FieldLevelEncryption](#)
- [FieldLevelEncryptionConfig](#)
- [FieldLevelEncryptionList](#)
- [FieldLevelEncryptionProfile](#)
- [FieldLevelEncryptionProfileConfig](#)
- [FieldLevelEncryptionProfileList](#)
- [FieldLevelEncryptionProfileSummary](#)
- [FieldLevelEncryptionSummary](#)

- [FieldPatterns](#)
- [ForwardedValues](#)
- [FunctionAssociation](#)
- [FunctionAssociations](#)
- [FunctionConfig](#)
- [FunctionList](#)
- [FunctionMetadata](#)
- [FunctionSummary](#)
- [GeoRestriction](#)
- [GrpcConfig](#)
- [Headers](#)
- [ImportSource](#)
- [Invalidation](#)
- [InvalidationBatch](#)
- [InvalidationList](#)
- [InvalidationSummary](#)
- [KeyGroup](#)
- [KeyGroupConfig](#)
- [KeyGroupList](#)
- [KeyGroupSummary](#)
- [KeyPairIds](#)
- [KeyValueStore](#)
- [KeyValueStoreAssociation](#)
- [KeyValueStoreAssociations](#)
- [KeyValueStoreList](#)
- [KGKeyPairIds](#)
- [KinesisStreamConfig](#)
- [LambdaFunctionAssociation](#)
- [LambdaFunctionAssociations](#)
- [LoggingConfig](#)

- [MonitoringSubscription](#)
- [Origin](#)
- [OriginAccessControl](#)
- [OriginAccessControlConfig](#)
- [OriginAccessControlList](#)
- [OriginAccessControlSummary](#)
- [OriginCustomHeader](#)
- [OriginGroup](#)
- [OriginGroupFailoverCriteria](#)
- [OriginGroupMember](#)
- [OriginGroupMembers](#)
- [OriginGroups](#)
- [OriginRequestPolicy](#)
- [OriginRequestPolicyConfig](#)
- [OriginRequestPolicyCookiesConfig](#)
- [OriginRequestPolicyHeadersConfig](#)
- [OriginRequestPolicyList](#)
- [OriginRequestPolicyQueryStringConfig](#)
- [OriginRequestPolicySummary](#)
- [Origins](#)
- [OriginShield](#)
- [OriginSslProtocols](#)
- [ParametersInCacheKeyAndForwardedToOrigin](#)
- [Paths](#)
- [PublicKey](#)
- [PublicKeyConfig](#)
- [PublicKeyList](#)
- [PublicKeySummary](#)
- [QueryArgProfile](#)
- [QueryArgProfileConfig](#)

- [QueryArgProfiles](#)
- [QueryStringCacheKeys](#)
- [QueryStringNames](#)
- [RealtimeLogConfig](#)
- [RealtimeLogConfigs](#)
- [RealtimeMetricsSubscriptionConfig](#)
- [ResponseHeadersPolicy](#)
- [ResponseHeadersPolicyAccessControlAllowHeaders](#)
- [ResponseHeadersPolicyAccessControlAllowMethods](#)
- [ResponseHeadersPolicyAccessControlAllowOrigins](#)
- [ResponseHeadersPolicyAccessControlExposeHeaders](#)
- [ResponseHeadersPolicyConfig](#)
- [ResponseHeadersPolicyContentSecurityPolicy](#)
- [ResponseHeadersPolicyContentTypeOptions](#)
- [ResponseHeadersPolicyCorsConfig](#)
- [ResponseHeadersPolicyCustomHeader](#)
- [ResponseHeadersPolicyCustomHeadersConfig](#)
- [ResponseHeadersPolicyFrameOptions](#)
- [ResponseHeadersPolicyList](#)
- [ResponseHeadersPolicyReferrerPolicy](#)
- [ResponseHeadersPolicyRemoveHeader](#)
- [ResponseHeadersPolicyRemoveHeadersConfig](#)
- [ResponseHeadersPolicySecurityHeadersConfig](#)
- [ResponseHeadersPolicyServerTimingHeadersConfig](#)
- [ResponseHeadersPolicyStrictTransportSecurity](#)
- [ResponseHeadersPolicySummary](#)
- [ResponseHeadersPolicyXSSProtection](#)
- [Restrictions](#)
- [S3Origin](#)
- [S3OriginConfig](#)



- [SessionStickinessConfig](#)
- [Signer](#)
- [StagingDistributionDnsNames](#)
- [StatusCodes](#)
- [StreamingDistribution](#)
- [StreamingDistributionConfig](#)
- [StreamingDistributionConfigWithTags](#)
- [StreamingDistributionList](#)
- [StreamingDistributionSummary](#)
- [StreamingLoggingConfig](#)
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- [TrustedKeyGroups](#)
- [TrustedSigners](#)
- [ViewerCertificate](#)
- [VpcOrigin](#)
- [VpcOriginConfig](#)
- [VpcOriginEndpointConfig](#)
- [VpcOriginList](#)
- [VpcOriginSummary](#)

# ActiveTrustedKeyGroups

Service: Amazon CloudFront

A list of key groups, and the public keys in each key group, that CloudFront can use to verify the signatures of signed URLs and signed cookies.

## Contents

### Enabled

This field is `true` if any of the key groups have public keys that CloudFront can use to verify the signatures of signed URLs and signed cookies. If not, this field is `false`.

Type: Boolean

Required: Yes

### Quantity

The number of key groups in the list.

Type: Integer

Required: Yes

### Items

A list of key groups, including the identifiers of the public keys in each key group that CloudFront can use to verify the signatures of signed URLs and signed cookies.

Type: Array of [KGKeyPairIds](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ActiveTrustedSigners

Service: Amazon CloudFront

A list of AWS accounts and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs and signed cookies.

## Contents

### Enabled

This field is `true` if any of the AWS accounts in the list are configured as trusted signers. If not, this field is `false`.

Type: Boolean

Required: Yes

### Quantity

The number of AWS accounts in the list.

Type: Integer

Required: Yes

### Items

A list of AWS accounts and the identifiers of active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs and signed cookies.

Type: Array of [Signer](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# Aliases

Service: Amazon CloudFront

A complex type that contains information about CNAMEs (alternate domain names), if any, for this distribution.

## Contents

### Quantity

The number of CNAME aliases, if any, that you want to associate with this distribution.

Type: Integer

Required: Yes

### Items

A complex type that contains the CNAME aliases, if any, that you want to associate with this distribution.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AliasICPRecordal

Service: Amazon CloudFront

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. AliasICPRecordal provides the ICP recordal status for CNAMEs associated with distributions. The status is returned in the CloudFront response; you can't configure it yourself.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

## Contents

### CNAME

A domain name associated with a distribution.

Type: String

Required: No

### ICPRecordalStatus

The Internet Content Provider (ICP) recordal status for a CNAME. The ICPRecordalStatus is set to APPROVED for all CNAMEs (aliases) in regions outside of China.

The status values returned are the following:

- **APPROVED** indicates that the associated CNAME has a valid ICP recordal number. Multiple CNAMEs can be associated with a distribution, and CNAMEs can correspond to different ICP recordals. To be marked as APPROVED, that is, valid to use with China region, a CNAME must have one ICP recordal number associated with it.
- **SUSPENDED** indicates that the associated CNAME does not have a valid ICP recordal number.
- **PENDING** indicates that CloudFront can't determine the ICP recordal status of the CNAME associated with the distribution because there was an error in trying to determine the status. You can try again to see if the error is resolved in which case CloudFront returns an APPROVED or SUSPENDED status.

Type: String

Valid Values: APPROVED | SUSPENDED | PENDING

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



## AllowedMethods

Service: Amazon CloudFront

A complex type that controls which HTTP methods CloudFront processes and forwards to your Amazon S3 bucket or your custom origin. There are three choices:

- CloudFront forwards only GET and HEAD requests.
- CloudFront forwards only GET, HEAD, and OPTIONS requests.
- CloudFront forwards GET, HEAD, OPTIONS, PUT, PATCH, POST, and DELETE requests.

If you pick the third choice, you may need to restrict access to your Amazon S3 bucket or to your custom origin so users can't perform operations that you don't want them to. For example, you might not want users to have permissions to delete objects from your origin.

### Contents

#### Items

A complex type that contains the HTTP methods that you want CloudFront to process and forward to your origin.

Type: Array of strings

Valid Values: GET | HEAD | POST | PUT | PATCH | OPTIONS | DELETE

Required: Yes

#### Quantity

The number of HTTP methods that you want CloudFront to forward to your origin. Valid values are 2 (for GET and HEAD requests), 3 (for GET, HEAD, and OPTIONS requests) and 7 (for GET, HEAD, OPTIONS, PUT, PATCH, POST, and DELETE requests).

Type: Integer

Required: Yes

#### CachedMethods

A complex type that controls whether CloudFront caches the response to requests using the specified HTTP methods. There are two choices:

- CloudFront caches responses to GET and HEAD requests.
- CloudFront caches responses to GET, HEAD, and OPTIONS requests.

If you pick the second choice for your Amazon S3 Origin, you may need to forward Access-Control-Request-Method, Access-Control-Request-Headers, and Origin headers for the responses to be cached correctly.

Type: [CachedMethods](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnycastIpList

Service: Amazon CloudFront

An Anycast static IP list.

## Contents

### AnycastIps

The static IP addresses that are allocated to the Anycast static IP list.

Type: Array of strings

Required: Yes

### Arn

The Amazon Resource Name (ARN) of the Anycast static IP list.

Type: String

Required: Yes

### Id

The ID of the Anycast static IP list.

Type: String

Required: Yes

### IpCount

The number of IP addresses in the Anycast static IP list.

Type: Integer

Required: Yes

### LastModifiedTime

The last time the Anycast static IP list was modified.

Type: Timestamp

Required: Yes

## Name

The name of the Anycast static IP list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

Required: Yes

## Status

The status of the Anycast static IP list. Valid values: Deployed, Deploying, or Failed.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnycastIpListCollection

Service: Amazon CloudFront

The Anycast static IP list collection.

## Contents

### IsTruncated

If there are more items in the list collection than are in this response, this value is `true`.

Type: Boolean

Required: Yes

### Marker

Use this field when paginating results to indicate where to begin in your list. The response includes items in the list that occur after the marker. To get the next page of the list, set this field's value to the value of `NextMarker` from the current page's response.

Type: String

Required: Yes

### MaxItems

The maximum number of Anycast static IP list collections that you want returned in the response.

Type: Integer

Required: Yes

### Quantity

The quantity of Anycast static IP lists in the collection.

Type: Integer

Required: Yes

### Items

Items in the Anycast static IP list collection. Each item is of the [AnycastIpListSummary](#) structure type.

Type: Array of [AnycastIpListSummary](#) objects

Required: No

### **NextMarker**

Indicates the next page of the Anycast static IP list collection. To get the next page of the list, use this value in the `Marker` field of your request.

Type: String

Required: No

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnycastIpListSummary

Service: Amazon CloudFront

An abbreviated version of the [AnycastIpList](#) structure. Omits the allocated static IP addresses ([AnycastIpList:AnycastIps](#)).

## Contents

### Arn

The Amazon Resource Name (ARN) of the Anycast static IP list.

Type: String

Required: Yes

### Id

The ID of the Anycast static IP list.

Type: String

Required: Yes

### IpCount

The number of IP addresses in the Anycast static IP list.

Type: Integer

Required: Yes

### LastModifiedTime

The last time the Anycast static IP list was modified.

Type: Timestamp

Required: Yes

### Name

The name of the Anycast static IP list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

Required: Yes

## Status

The deployment status of the Anycast static IP list. Valid values: Deployed, Deploying, or Failed.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CacheBehavior

Service: Amazon CloudFront

A complex type that describes how CloudFront processes requests.

You must create at least as many cache behaviors (including the default cache behavior) as you have origins if you want CloudFront to serve objects from all of the origins. Each cache behavior specifies the one origin from which you want CloudFront to get objects. If you have two origins and only the default cache behavior, the default cache behavior will cause CloudFront to get objects from one of the origins, but the other origin is never used.

For the current quota (formerly known as limit) on the number of cache behaviors that you can add to a distribution, see [Quotas](#) in the *Amazon CloudFront Developer Guide*.

If you don't want to specify any cache behaviors, include only an empty `CacheBehaviors` element. Don't specify an empty individual `CacheBehavior` element, because this is invalid. For more information, see [CacheBehaviors](#).

To delete all cache behaviors in an existing distribution, update the distribution configuration and include only an empty `CacheBehaviors` element.

To add, change, or remove one or more cache behaviors, update the distribution configuration and specify all of the cache behaviors that you want to include in the updated distribution.

For more information about cache behaviors, see [Cache Behavior Settings](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### PathPattern

The pattern (for example, `images/* . jpg`) that specifies which requests to apply the behavior to. When CloudFront receives a viewer request, the requested path is compared with path patterns in the order in which cache behaviors are listed in the distribution.

#### Note

You can optionally include a slash (/) at the beginning of the path pattern. For example, `/images/* . jpg`. CloudFront behavior is the same with or without the leading /.

The path pattern for the default cache behavior is `*` and cannot be changed. If the request for an object does not match the path pattern for any cache behaviors, CloudFront applies the behavior in the default cache behavior.

For more information, see [Path Pattern](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: Yes

### TargetOriginId

The value of ID for the origin that you want CloudFront to route requests to when they match this cache behavior.

Type: String

Required: Yes

### ViewerProtocolPolicy

The protocol that viewers can use to access the files in the origin specified by `TargetOriginId` when a request matches the path pattern in `PathPattern`. You can specify the following options:

- `allow-all`: Viewers can use HTTP or HTTPS.
- `redirect-to-https`: If a viewer submits an HTTP request, CloudFront returns an HTTP status code of 301 (Moved Permanently) to the viewer along with the HTTPS URL. The viewer then resubmits the request using the new URL.
- `https-only`: If a viewer sends an HTTP request, CloudFront returns an HTTP status code of 403 (Forbidden).

For more information about requiring the HTTPS protocol, see [Requiring HTTPS Between Viewers and CloudFront](#) in the *Amazon CloudFront Developer Guide*.

#### Note

The only way to guarantee that viewers retrieve an object that was fetched from the origin using HTTPS is never to use any other protocol to fetch the object. If you have recently changed from HTTP to HTTPS, we recommend that you clear your objects' cache because cached objects are protocol agnostic. That means that an edge location

will return an object from the cache regardless of whether the current request protocol matches the protocol used previously. For more information, see [Managing Cache Expiration](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Valid Values: allow-all | https-only | redirect-to-https

Required: Yes

### AllowedMethods

A complex type that controls which HTTP methods CloudFront processes and forwards to your Amazon S3 bucket or your custom origin. There are three choices:

- CloudFront forwards only GET and HEAD requests.
- CloudFront forwards only GET, HEAD, and OPTIONS requests.
- CloudFront forwards GET, HEAD, OPTIONS, PUT, PATCH, POST, and DELETE requests.

If you pick the third choice, you may need to restrict access to your Amazon S3 bucket or to your custom origin so users can't perform operations that you don't want them to. For example, you might not want users to have permissions to delete objects from your origin.

Type: [AllowedMethods](#) object

Required: No

### CachePolicyId

The unique identifier of the cache policy that is attached to this cache behavior. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

A CacheBehavior must include either a CachePolicyId or ForwardedValues. We recommend that you use a CachePolicyId.

Type: String

Required: No

## Compress

Whether you want CloudFront to automatically compress certain files for this cache behavior. If so, specify true; if not, specify false. For more information, see [Serving Compressed Files](#) in the *Amazon CloudFront Developer Guide*.

Type: Boolean

Required: No

## DefaultTTL

This field is deprecated. We recommend that you use the `DefaultTTL` field in a cache policy instead of this field. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

The default amount of time that you want objects to stay in CloudFront caches before CloudFront forwards another request to your origin to determine whether the object has been updated. The value that you specify applies only when your origin does not add HTTP headers such as `Cache-Control max-age`, `Cache-Control s-maxage`, and `Expires` to objects. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: No

## FieldLevelEncryptionId

The value of ID for the field-level encryption configuration that you want CloudFront to use for encrypting specific fields of data for this cache behavior.

Type: String

Required: No

## ForwardedValues

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field. For more information, see [Working with policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to include values in the cache key, use a cache policy. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send values to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) or [Using the managed origin request policies](#) in the *Amazon CloudFront Developer Guide*.

A `CacheBehavior` must include either a `CachePolicyId` or `ForwardedValues`. We recommend that you use a `CachePolicyId`.

A complex type that specifies how CloudFront handles query strings, cookies, and HTTP headers.

Type: [ForwardedValues](#) object

Required: No

### FunctionAssociations

A list of CloudFront functions that are associated with this cache behavior. CloudFront functions must be published to the LIVE stage to associate them with a cache behavior.

Type: [FunctionAssociations](#) object

Required: No

### GrpcConfig

The gRPC configuration for your cache behavior.

Type: [GrpcConfig](#) object

Required: No

### LambdaFunctionAssociations

A complex type that contains zero or more `Lambda@Edge` function associations for a cache behavior.

Type: [LambdaFunctionAssociations](#) object

Required: No

## MaxTTL

This field is deprecated. We recommend that you use the `MaxTTL` field in a cache policy instead of this field. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

The maximum amount of time that you want objects to stay in CloudFront caches before CloudFront forwards another request to your origin to determine whether the object has been updated. The value that you specify applies only when your origin adds HTTP headers such as `Cache-Control max-age`, `Cache-Control s-maxage`, and `Expires` to objects. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: No

## MinTTL

This field is deprecated. We recommend that you use the `MinTTL` field in a cache policy instead of this field. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

The minimum amount of time that you want objects to stay in CloudFront caches before CloudFront forwards another request to your origin to determine whether the object has been updated. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

You must specify `0` for `MinTTL` if you configure CloudFront to forward all headers to your origin (under `Headers`, if you specify `1` for `Quantity` and `*` for `Name`).

Type: Long

Required: No

## OriginRequestPolicyId

The unique identifier of the origin request policy that is attached to this cache behavior. For more information, see [Creating origin request policies](#) or [Using the managed origin request policies](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

### **RealtimeLogConfigArn**

The Amazon Resource Name (ARN) of the real-time log configuration that is attached to this cache behavior. For more information, see [Real-time logs](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

### **ResponseHeadersPolicyId**

The identifier for a response headers policy.

Type: String

Required: No

### **SmoothStreaming**

Indicates whether you want to distribute media files in the Microsoft Smooth Streaming format using the origin that is associated with this cache behavior. If so, specify `true`; if not, specify `false`. If you specify `true` for `SmoothStreaming`, you can still distribute other content using this cache behavior if the content matches the value of `PathPattern`.

Type: Boolean

Required: No

### **TrustedKeyGroups**

A list of key groups that CloudFront can use to validate signed URLs or signed cookies.

When a cache behavior contains trusted key groups, CloudFront requires signed URLs or signed cookies for all requests that match the cache behavior. The URLs or cookies must be signed with a private key whose corresponding public key is in the key group. The signed URL or cookie contains information about which public key CloudFront should use to verify the signature. For more information, see [Serving private content](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedKeyGroups](#) object

Required: No

## TrustedSigners

### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

A list of AWS account IDs whose public keys CloudFront can use to validate signed URLs or signed cookies.

When a cache behavior contains trusted signers, CloudFront requires signed URLs or signed cookies for all requests that match the cache behavior. The URLs or cookies must be signed with the private key of a CloudFront key pair in the trusted signer's AWS account. The signed URL or cookie contains information about which public key CloudFront should use to verify the signature. For more information, see [Serving private content](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CacheBehaviors

Service: Amazon CloudFront

A complex type that contains zero or more `CacheBehavior` elements.

## Contents

### Quantity

The number of cache behaviors for this distribution.

Type: Integer

Required: Yes

### Items

Optional: A complex type that contains cache behaviors for this distribution. If `Quantity` is 0, you can omit `Items`.

Type: Array of [CacheBehavior](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## CachedMethods

Service: Amazon CloudFront

A complex type that controls whether CloudFront caches the response to requests using the specified HTTP methods. There are two choices:

- CloudFront caches responses to GET and HEAD requests.
- CloudFront caches responses to GET, HEAD, and OPTIONS requests.

If you pick the second choice for your Amazon S3 Origin, you may need to forward Access-Control-Request-Method, Access-Control-Request-Headers, and Origin headers for the responses to be cached correctly.

### Contents

#### Items

A complex type that contains the HTTP methods that you want CloudFront to cache responses to. Valid values for `CachedMethods` include GET, HEAD, and OPTIONS, depending on which caching option you choose. For more information, see the preceding section.

Type: Array of strings

Valid Values: GET | HEAD | POST | PUT | PATCH | OPTIONS | DELETE

Required: Yes

#### Quantity

The number of HTTP methods for which you want CloudFront to cache responses. Valid values are 2 (for caching responses to GET and HEAD requests) and 3 (for caching responses to GET, HEAD, and OPTIONS requests).

Type: Integer

Required: Yes

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CachePolicy

Service: Amazon CloudFront

A cache policy.

When it's attached to a cache behavior, the cache policy determines the following:

- The values that CloudFront includes in the cache key. These values can include HTTP headers, cookies, and URL query strings. CloudFront uses the cache key to find an object in its cache that it can return to the viewer.
- The default, minimum, and maximum time to live (TTL) values that you want objects to stay in the CloudFront cache.

The headers, cookies, and query strings that are included in the cache key are also included in requests that CloudFront sends to the origin. CloudFront sends a request when it can't find a valid object in its cache that matches the request's cache key. If you want to send values to the origin but *not* include them in the cache key, use `OriginRequestPolicy`.

## Contents

### CachePolicyConfig

The cache policy configuration.

Type: [CachePolicyConfig](#) object

Required: Yes

### Id

The unique identifier for the cache policy.

Type: String

Required: Yes

### LastModifiedTime

The date and time when the cache policy was last modified.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CachePolicyConfig

Service: Amazon CloudFront

A cache policy configuration.

This configuration determines the following:

- The values that CloudFront includes in the cache key. These values can include HTTP headers, cookies, and URL query strings. CloudFront uses the cache key to find an object in its cache that it can return to the viewer.
- The default, minimum, and maximum time to live (TTL) values that you want objects to stay in the CloudFront cache.

The headers, cookies, and query strings that are included in the cache key are also included in requests that CloudFront sends to the origin. CloudFront sends a request when it can't find a valid object in its cache that matches the request's cache key. If you want to send values to the origin but *not* include them in the cache key, use `OriginRequestPolicy`.

## Contents

### MinTTL

The minimum amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: Yes

### Name

A unique name to identify the cache policy.

Type: String

Required: Yes

### Comment

A comment to describe the cache policy. The comment cannot be longer than 128 characters.

Type: String

Required: No

### DefaultTTL

The default amount of time, in seconds, that you want objects to stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value as the object's time to live (TTL) only when the origin does *not* send `Cache-Control` or `Expires` headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 86400 seconds (one day). If the value of `MinTTL` is more than 86400 seconds, then the default value for this field is the same as the value of `MinTTL`.

Type: Long

Required: No

### MaxTTL

The maximum amount of time, in seconds, that objects stay in the CloudFront cache before CloudFront sends another request to the origin to see if the object has been updated. CloudFront uses this value only when the origin sends `Cache-Control` or `Expires` headers with the object. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

The default value for this field is 31536000 seconds (one year). If the value of `MinTTL` or `DefaultTTL` is more than 31536000 seconds, then the default value for this field is the same as the value of `DefaultTTL`.

Type: Long

Required: No

### ParametersInCacheKeyAndForwardedToOrigin

The HTTP headers, cookies, and URL query strings to include in the cache key. The values included in the cache key are also included in requests that CloudFront sends to the origin.

Type: [ParametersInCacheKeyAndForwardedToOrigin](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CachePolicyCookiesConfig

Service: Amazon CloudFront

An object that determines whether any cookies in viewer requests (and if so, which cookies) are included in the cache key and in requests that CloudFront sends to the origin.

## Contents

### CookieBehavior

Determines whether any cookies in viewer requests are included in the cache key and in requests that CloudFront sends to the origin. Valid values are:

- `none` – No cookies in viewer requests are included in the cache key or in requests that CloudFront sends to the origin. Even when this field is set to `none`, any cookies that are listed in an `OriginRequestPolicy` *are* included in origin requests.
- `whitelist` – Only the cookies in viewer requests that are listed in the `CookieNames` type are included in the cache key and in requests that CloudFront sends to the origin.
- `allExcept` – All cookies in viewer requests are included in the cache key and in requests that CloudFront sends to the origin, ***except*** for those that are listed in the `CookieNames` type, which are not included.
- `all` – All cookies in viewer requests are included in the cache key and in requests that CloudFront sends to the origin.

Type: String

Valid Values: `none` | `whitelist` | `allExcept` | `all`

Required: Yes

### Cookies

Contains a list of cookie names.

Type: [CookieNames](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CachePolicyHeadersConfig

Service: Amazon CloudFront

An object that determines whether any HTTP headers (and if so, which headers) are included in the cache key and in requests that CloudFront sends to the origin.

## Contents

### HeaderBehavior

Determines whether any HTTP headers are included in the cache key and in requests that CloudFront sends to the origin. Valid values are:

- `none` – No HTTP headers are included in the cache key or in requests that CloudFront sends to the origin. Even when this field is set to `none`, any headers that are listed in an `OriginRequestPolicy` *are* included in origin requests.
- `whitelist` – Only the HTTP headers that are listed in the `Headers` type are included in the cache key and in requests that CloudFront sends to the origin.

Type: String

Valid Values: `none` | `whitelist`

Required: Yes

### Headers

Contains a list of HTTP header names.

Type: [Headers](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CachePolicyList

Service: Amazon CloudFront

A list of cache policies.

## Contents

### MaxItems

The maximum number of cache policies requested.

Type: Integer

Required: Yes

### Quantity

The total number of cache policies returned in the response.

Type: Integer

Required: Yes

### Items

Contains the cache policies in the list.

Type: Array of [CachePolicySummary](#) objects

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing cache policies where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CachePolicyQueryStringsConfig

Service: Amazon CloudFront

An object that determines whether any URL query strings in viewer requests (and if so, which query strings) are included in the cache key and in requests that CloudFront sends to the origin.

## Contents

### QueryStringBehavior

Determines whether any URL query strings in viewer requests are included in the cache key and in requests that CloudFront sends to the origin. Valid values are:

- `none` – No query strings in viewer requests are included in the cache key or in requests that CloudFront sends to the origin. Even when this field is set to `none`, any query strings that are listed in an `OriginRequestPolicy` *are* included in origin requests.
- `whitelist` – Only the query strings in viewer requests that are listed in the `QueryStringNames` type are included in the cache key and in requests that CloudFront sends to the origin.
- `allExcept` – All query strings in viewer requests are included in the cache key and in requests that CloudFront sends to the origin, **except** those that are listed in the `QueryStringNames` type, which are not included.
- `all` – All query strings in viewer requests are included in the cache key and in requests that CloudFront sends to the origin.

Type: String

Valid Values: `none` | `whitelist` | `allExcept` | `all`

Required: Yes

### QueryStrings

Contains the specific query strings in viewer requests that either **are** or **are not** included in the cache key and in requests that CloudFront sends to the origin. The behavior depends on whether the `QueryStringBehavior` field in the `CachePolicyQueryStringsConfig` type is set to `whitelist` (the listed query strings **are** included) or `allExcept` (the listed query strings **are not** included, but all other query strings are).

Type: [QueryStringNames](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CachePolicySummary

Service: Amazon CloudFront

Contains a cache policy.

## Contents

### CachePolicy

The cache policy.

Type: [CachePolicy](#) object

Required: Yes

### Type

The type of cache policy, either managed (created by AWS) or custom (created in this AWS account).

Type: String

Valid Values: managed | custom

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CloudFrontOriginAccessIdentity

Service: Amazon CloudFront

CloudFront origin access identity.

## Contents

### Id

The ID for the origin access identity, for example, E74FTE3AJFJ256A.

Type: String

Required: Yes

### S3CanonicalUserId

The Amazon S3 canonical user ID for the origin access identity, used when giving the origin access identity read permission to an object in Amazon S3.

Type: String

Required: Yes

### CloudFrontOriginAccessIdentityConfig

The current configuration information for the identity.

Type: [CloudFrontOriginAccessIdentityConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CloudFrontOriginAccessIdentityConfig

Service: Amazon CloudFront

Origin access identity configuration. Send a GET request to the */CloudFront API version/CloudFront/identity ID/config* resource.

## Contents

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `CloudFrontOriginAccessIdentityConfig` object), a new origin access identity is created.

If the `CallerReference` is a value already sent in a previous identity request, and the content of the `CloudFrontOriginAccessIdentityConfig` is identical to the original request (ignoring white space), the response includes the same information returned to the original request.

If the `CallerReference` is a value you already sent in a previous request to create an identity, but the content of the `CloudFrontOriginAccessIdentityConfig` is different from the original request, CloudFront returns a `CloudFrontOriginAccessIdentityAlreadyExists` error.

Type: String

Required: Yes

### Comment

A comment to describe the origin access identity. The comment cannot be longer than 128 characters.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CloudFrontOriginAccessIdentityList

Service: Amazon CloudFront

Lists the origin access identities for CloudFront. Send a GET request to the */CloudFront API version/origin-access-identity/cloudfront* resource. The response includes a `CloudFrontOriginAccessIdentityList` element with zero or more `CloudFrontOriginAccessIdentitySummary` child elements. By default, your entire list of origin access identities is returned in one single page. If the list is long, you can paginate it using the `MaxItems` and `Marker` parameters.

## Contents

### IsTruncated

A flag that indicates whether more origin access identities remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more items in the list.

Type: Boolean

Required: Yes

### Marker

Use this when paginating results to indicate where to begin in your list of origin access identities. The results include identities in the list that occur after the marker. To get the next page of results, set the `Marker` to the value of the `NextMarker` from the current page's response (which is also the ID of the last identity on that page).

Type: String

Required: Yes

### MaxItems

The maximum number of origin access identities you want in the response body.

Type: Integer

Required: Yes

## Quantity

The number of CloudFront origin access identities that were created by the current AWS account.

Type: Integer

Required: Yes

## Items

A complex type that contains one `CloudFrontOriginAccessIdentitySummary` element for each origin access identity that was created by the current AWS account.

Type: Array of [CloudFrontOriginAccessIdentitySummary](#) objects

Required: No

## NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your origin access identities where they left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CloudFrontOriginAccessIdentitySummary

Service: Amazon CloudFront

Summary of the information about a CloudFront origin access identity.

## Contents

### Comment

The comment for this origin access identity, as originally specified when created.

Type: String

Required: Yes

### Id

The ID for the origin access identity. For example: E74FTE3AJFJ256A.

Type: String

Required: Yes

### S3CanonicalUserId

The Amazon S3 canonical user ID for the origin access identity, which you use when giving the origin access identity read permission to an object in Amazon S3.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConflictingAlias

Service: Amazon CloudFront

An alias (also called a CNAME) and the CloudFront distribution and AWS account ID that it's associated with. The distribution and account IDs are partially hidden, which allows you to identify the distributions and accounts that you own, but helps to protect the information of ones that you don't own.

## Contents

### AccountId

The (partially hidden) ID of the AWS account that owns the distribution that's associated with the alias.

Type: String

Required: No

### Alias

An alias (also called a CNAME).

Type: String

Required: No

### DistributionId

The (partially hidden) ID of the CloudFront distribution associated with the alias.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)



- [AWS SDK for Ruby V3](#)

# ConflictingAliasesList

Service: Amazon CloudFront

A list of aliases (also called CNAMEs) and the CloudFront distributions and AWS accounts that they are associated with. In the list, the distribution and account IDs are partially hidden, which allows you to identify the distributions and accounts that you own, but helps to protect the information of ones that you don't own.

## Contents

### Items

Contains the conflicting aliases in the list.

Type: Array of [ConflictingAlias](#) objects

Required: No

### MaxItems

The maximum number of conflicting aliases requested.

Type: Integer

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing conflicting aliases where you left off.

Type: String

Required: No

### Quantity

The number of conflicting aliases returned in the response.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContentTypeProfile

Service: Amazon CloudFront

A field-level encryption content type profile.

## Contents

### ContentType

The content type for a field-level encryption content type-profile mapping.

Type: String

Required: Yes

### Format

The format for a field-level encryption content type-profile mapping.

Type: String

Valid Values: URLEncoded

Required: Yes

### ProfileId

The profile ID for a field-level encryption content type-profile mapping.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContentTypeProfileConfig

Service: Amazon CloudFront

The configuration for a field-level encryption content type-profile mapping.

## Contents

### ForwardWhenContentTypesUnknown

The setting in a field-level encryption content type-profile mapping that specifies what to do when an unknown content type is provided for the profile. If true, content is forwarded without being encrypted when the content type is unknown. If false (the default), an error is returned when the content type is unknown.

Type: Boolean

Required: Yes

### ContentTypeProfiles

The configuration for a field-level encryption content type-profile.

Type: [ContentTypeProfiles](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContentTypeProfiles

Service: Amazon CloudFront

Field-level encryption content type-profile.

## Contents

### Quantity

The number of field-level encryption content type-profile mappings.

Type: Integer

Required: Yes

### Items

Items in a field-level encryption content type-profile mapping.

Type: Array of [ContentTypeProfile](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContinuousDeploymentPolicy

Service: Amazon CloudFront

A continuous deployment policy.

## Contents

### ContinuousDeploymentPolicyConfig

Contains the configuration for a continuous deployment policy.

Type: [ContinuousDeploymentPolicyConfig](#) object

Required: Yes

### Id

The identifier of the continuous deployment policy.

Type: String

Required: Yes

### LastModifiedTime

The date and time the continuous deployment policy was last modified.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContinuousDeploymentPolicyConfig

Service: Amazon CloudFront

Contains the configuration for a continuous deployment policy.

## Contents

### Enabled

A Boolean that indicates whether this continuous deployment policy is enabled (in effect). When this value is `true`, this policy is enabled and in effect. When this value is `false`, this policy is not enabled and has no effect.

Type: Boolean

Required: Yes

### StagingDistributionDnsNames

The CloudFront domain name of the staging distribution. For example: `d111111abcdef8.cloudfront.net`.

Type: [StagingDistributionDnsNames](#) object

Required: Yes

### TrafficConfig

Contains the parameters for routing production traffic from your primary to staging distributions.

Type: [TrafficConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)



- [AWS SDK for Ruby V3](#)

# ContinuousDeploymentPolicyList

Service: Amazon CloudFront

Contains a list of continuous deployment policies.

## Contents

### MaxItems

The maximum number of continuous deployment policies that were specified in your request.

Type: Integer

Required: Yes

### Quantity

The total number of continuous deployment policies in your AWS account, regardless of the MaxItems value.

Type: Integer

Required: Yes

### Items

A list of continuous deployment policy items.

Type: Array of [ContinuousDeploymentPolicySummary](#) objects

Required: No

### NextMarker

Indicates the next page of continuous deployment policies. To get the next page of the list, use this value in the Marker field of your request.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContinuousDeploymentPolicySummary

Service: Amazon CloudFront

A summary of the information about your continuous deployment policies.

## Contents

### ContinuousDeploymentPolicy

The continuous deployment policy.

Type: [ContinuousDeploymentPolicy](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContinuousDeploymentSingleHeaderConfig

Service: Amazon CloudFront

This configuration determines which HTTP requests are sent to the staging distribution. If the HTTP request contains a header and value that matches what you specify here, the request is sent to the staging distribution. Otherwise the request is sent to the primary distribution.

## Contents

### Header

The request header name that you want CloudFront to send to your staging distribution. The header must contain the prefix `aws-cf-cd-`.

Type: String

Required: Yes

### Value

The request header value.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContinuousDeploymentSingleWeightConfig

Service: Amazon CloudFront

Contains the percentage of traffic to send to a staging distribution.

## Contents

### Weight

The percentage of traffic to send to a staging distribution, expressed as a decimal number between 0 and 0.15. For example, a value of 0.10 means 10% of traffic is sent to the staging distribution.

Type: Float

Required: Yes

### SessionStickinessConfig

Session stickiness provides the ability to define multiple requests from a single viewer as a single session. This prevents the potentially inconsistent experience of sending some of a given user's requests to your staging distribution, while others are sent to your primary distribution. Define the session duration using TTL values.

Type: [SessionStickinessConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CookieNames

Service: Amazon CloudFront

Contains a list of cookie names.

## Contents

### Quantity

The number of cookie names in the `Items` list.

Type: Integer

Required: Yes

### Items

A list of cookie names.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CookiePreference

Service: Amazon CloudFront

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include cookies in the cache key, use `CookiesConfig` in a cache policy. See `CachePolicy`.

If you want to send cookies to the origin but not include them in the cache key, use `CookiesConfig` in an origin request policy. See `OriginRequestPolicy`.

A complex type that specifies whether you want CloudFront to forward cookies to the origin and, if so, which ones. For more information about forwarding cookies to the origin, see [Caching Content Based on Cookies](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Forward

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include cookies in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send cookies to the origin but not include them in the cache key, use origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

Specifies which cookies to forward to the origin for this cache behavior: all, none, or the list of cookies specified in the `WhitelistedNames` complex type.

Amazon S3 doesn't process cookies. When the cache behavior is forwarding requests to an Amazon S3 origin, specify none for the `Forward` element.

Type: String

Valid Values: none | whitelist | all

Required: Yes



## WhitelistedNames

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include cookies in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send cookies to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

Required if you specify `whitelist` for the value of `Forward`. A complex type that specifies how many different cookies you want CloudFront to forward to the origin for this cache behavior and, if you want to forward selected cookies, the names of those cookies.

If you specify `all` or `none` for the value of `Forward`, omit `WhitelistedNames`. If you change the value of `Forward` from `whitelist` to `all` or `none` and you don't delete the `WhitelistedNames` element and its child elements, CloudFront deletes them automatically.

For the current limit on the number of cookie names that you can whitelist for each cache behavior, see [CloudFront Limits](#) in the *AWS General Reference*.

Type: [CookieNames](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CustomErrorResponse

Service: Amazon CloudFront

A complex type that controls:

- Whether CloudFront replaces HTTP status codes in the 4xx and 5xx range with custom error messages before returning the response to the viewer.
- How long CloudFront caches HTTP status codes in the 4xx and 5xx range.

For more information about custom error pages, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### ErrorCode

The HTTP status code for which you want to specify a custom error page and/or a caching duration.

Type: Integer

Required: Yes

### ErrorCachingMinTTL

The minimum amount of time, in seconds, that you want CloudFront to cache the HTTP status code specified in `ErrorCode`. When this time period has elapsed, CloudFront queries your origin to see whether the problem that caused the error has been resolved and the requested object is now available.

For more information, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: No

### ResponseCode

The HTTP status code that you want CloudFront to return to the viewer along with the custom error page. There are a variety of reasons that you might want CloudFront to return a status code different from the status code that your origin returned to CloudFront, for example:

- Some Internet devices (some firewalls and corporate proxies, for example) intercept HTTP 4xx and 5xx and prevent the response from being returned to the viewer. If you substitute 200, the response typically won't be intercepted.
- If you don't care about distinguishing among different client errors or server errors, you can specify 400 or 500 as the `ResponseCode` for all 4xx or 5xx errors.
- You might want to return a 200 status code (OK) and static website so your customers don't know that your website is down.

If you specify a value for `ResponseCode`, you must also specify a value for `ResponsePagePath`.

Type: String

Required: No

### **ResponsePagePath**

The path to the custom error page that you want CloudFront to return to a viewer when your origin returns the HTTP status code specified by `ErrorCode`, for example, `/4xx-errors/403-forbidden.html`. If you want to store your objects and your custom error pages in different locations, your distribution must include a cache behavior for which the following is true:

- The value of `PathPattern` matches the path to your custom error messages. For example, suppose you saved custom error pages for 4xx errors in an Amazon S3 bucket in a directory named `/4xx-errors`. Your distribution must include a cache behavior for which the path pattern routes requests for your custom error pages to that location, for example, `/4xx-errors/*`.
- The value of `TargetOriginId` specifies the value of the ID element for the origin that contains your custom error pages.

If you specify a value for `ResponsePagePath`, you must also specify a value for `ResponseCode`.

We recommend that you store custom error pages in an Amazon S3 bucket. If you store custom error pages on an HTTP server and the server starts to return 5xx errors, CloudFront can't get the files that you want to return to viewers because the origin server is unavailable.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CustomErrorResponses

Service: Amazon CloudFront

A complex type that controls:

- Whether CloudFront replaces HTTP status codes in the 4xx and 5xx range with custom error messages before returning the response to the viewer.
- How long CloudFront caches HTTP status codes in the 4xx and 5xx range.

For more information about custom error pages, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Quantity

The number of HTTP status codes for which you want to specify a custom error page and/or a caching duration. If `Quantity` is 0, you can omit `Items`.

Type: Integer

Required: Yes

### Items

A complex type that contains a `CustomErrorResponse` element for each HTTP status code for which you want to specify a custom error page and/or a caching duration.

Type: Array of [CustomErrorResponse](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CustomHeaders

Service: Amazon CloudFront

A complex type that contains the list of Custom Headers for each origin.

## Contents

### Quantity

The number of custom headers, if any, for this distribution.

Type: Integer

Required: Yes

### Items

**Optional:** A list that contains one `OriginCustomHeader` element for each custom header that you want CloudFront to forward to the origin. If `Quantity` is `0`, omit `Items`.

Type: Array of [OriginCustomHeader](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CustomOriginConfig

Service: Amazon CloudFront

A custom origin. A custom origin is any origin that is *not* an Amazon S3 bucket, with one exception. An Amazon S3 bucket that is [configured with static website hosting](#) is a custom origin.

## Contents

### HTTPPort

The HTTP port that CloudFront uses to connect to the origin. Specify the HTTP port that the origin listens on.

Type: Integer

Required: Yes

### HTTPSPort

The HTTPS port that CloudFront uses to connect to the origin. Specify the HTTPS port that the origin listens on.

Type: Integer

Required: Yes

### OriginProtocolPolicy

Specifies the protocol (HTTP or HTTPS) that CloudFront uses to connect to the origin. Valid values are:

- `http-only` – CloudFront always uses HTTP to connect to the origin.
- `match-viewer` – CloudFront connects to the origin using the same protocol that the viewer used to connect to CloudFront.
- `https-only` – CloudFront always uses HTTPS to connect to the origin.

Type: String

Valid Values: `http-only` | `match-viewer` | `https-only`

Required: Yes



## OriginKeepaliveTimeout

Specifies how long, in seconds, CloudFront persists its connection to the origin. The minimum timeout is 1 second, the maximum is 60 seconds, and the default (if you don't specify otherwise) is 5 seconds.

For more information, see [Keep-alive timeout \(custom origins only\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Integer

Required: No

## OriginReadTimeout

Specifies how long, in seconds, CloudFront waits for a response from the origin. This is also known as the *origin response timeout*. The minimum timeout is 1 second, the maximum is 60 seconds, and the default (if you don't specify otherwise) is 30 seconds.

For more information, see [Response timeout \(custom origins only\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Integer

Required: No

## OriginSslProtocols

Specifies the minimum SSL/TLS protocol that CloudFront uses when connecting to your origin over HTTPS. Valid values include SSLv3, TLSv1, TLSv1.1, and TLSv1.2.

For more information, see [Minimum Origin SSL Protocol](#) in the *Amazon CloudFront Developer Guide*.

Type: [OriginSslProtocols](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DefaultCacheBehavior

Service: Amazon CloudFront

A complex type that describes the default cache behavior if you don't specify a `CacheBehavior` element or if request URLs don't match any of the values of `PathPattern` in `CacheBehavior` elements. You must create exactly one default cache behavior.

## Contents

### TargetOriginId

The value of ID for the origin that you want CloudFront to route requests to when they use the default cache behavior.

Type: String

Required: Yes

### ViewerProtocolPolicy

The protocol that viewers can use to access the files in the origin specified by `TargetOriginId` when a request matches the path pattern in `PathPattern`. You can specify the following options:

- `allow-all`: Viewers can use HTTP or HTTPS.
- `redirect-to-https`: If a viewer submits an HTTP request, CloudFront returns an HTTP status code of 301 (Moved Permanently) to the viewer along with the HTTPS URL. The viewer then resubmits the request using the new URL.
- `https-only`: If a viewer sends an HTTP request, CloudFront returns an HTTP status code of 403 (Forbidden).

For more information about requiring the HTTPS protocol, see [Requiring HTTPS Between Viewers and CloudFront](#) in the *Amazon CloudFront Developer Guide*.

#### Note

The only way to guarantee that viewers retrieve an object that was fetched from the origin using HTTPS is never to use any other protocol to fetch the object. If you have recently changed from HTTP to HTTPS, we recommend that you clear your objects' cache because cached objects are protocol agnostic. That means that an edge location

will return an object from the cache regardless of whether the current request protocol matches the protocol used previously. For more information, see [Managing Cache Expiration](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Valid Values: allow-all | https-only | redirect-to-https

Required: Yes

### AllowedMethods

A complex type that controls which HTTP methods CloudFront processes and forwards to your Amazon S3 bucket or your custom origin. There are three choices:

- CloudFront forwards only GET and HEAD requests.
- CloudFront forwards only GET, HEAD, and OPTIONS requests.
- CloudFront forwards GET, HEAD, OPTIONS, PUT, PATCH, POST, and DELETE requests.

If you pick the third choice, you may need to restrict access to your Amazon S3 bucket or to your custom origin so users can't perform operations that you don't want them to. For example, you might not want users to have permissions to delete objects from your origin.

Type: [AllowedMethods](#) object

Required: No

### CachePolicyId

The unique identifier of the cache policy that is attached to the default cache behavior. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

A `DefaultCacheBehavior` must include either a `CachePolicyId` or `ForwardedValues`. We recommend that you use a `CachePolicyId`.

Type: String

Required: No

## Compress

Whether you want CloudFront to automatically compress certain files for this cache behavior. If so, specify `true`; if not, specify `false`. For more information, see [Serving Compressed Files](#) in the *Amazon CloudFront Developer Guide*.

Type: Boolean

Required: No

## DefaultTTL

This field is deprecated. We recommend that you use the `DefaultTTL` field in a cache policy instead of this field. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

The default amount of time that you want objects to stay in CloudFront caches before CloudFront forwards another request to your origin to determine whether the object has been updated. The value that you specify applies only when your origin does not add HTTP headers such as `Cache-Control max-age`, `Cache-Control s-maxage`, and `Expires` to objects. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: No

## FieldLevelEncryptionId

The value of ID for the field-level encryption configuration that you want CloudFront to use for encrypting specific fields of data for the default cache behavior.

Type: String

Required: No

## ForwardedValues

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field. For more information, see [Working with policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to include values in the cache key, use a cache policy. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send values to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) or [Using the managed origin request policies](#) in the *Amazon CloudFront Developer Guide*.

A `DefaultCacheBehavior` must include either a `CachePolicyId` or `ForwardedValues`. We recommend that you use a `CachePolicyId`.

A complex type that specifies how CloudFront handles query strings, cookies, and HTTP headers.

Type: [ForwardedValues](#) object

Required: No

### **FunctionAssociations**

A list of CloudFront functions that are associated with this cache behavior. Your functions must be published to the LIVE stage to associate them with a cache behavior.

Type: [FunctionAssociations](#) object

Required: No

### **GrpcConfig**

The gRPC configuration for your cache behavior.

Type: [GrpcConfig](#) object

Required: No

### **LambdaFunctionAssociations**

A complex type that contains zero or more `Lambda@Edge` function associations for a cache behavior.

Type: [LambdaFunctionAssociations](#) object

Required: No

## MaxTTL

This field is deprecated. We recommend that you use the `MaxTTL` field in a cache policy instead of this field. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

The maximum amount of time that you want objects to stay in CloudFront caches before CloudFront forwards another request to your origin to determine whether the object has been updated. The value that you specify applies only when your origin adds HTTP headers such as `Cache-Control max-age`, `Cache-Control s-maxage`, and `Expires` to objects. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Long

Required: No

## MinTTL

This field is deprecated. We recommend that you use the `MinTTL` field in a cache policy instead of this field. For more information, see [Creating cache policies](#) or [Using the managed cache policies](#) in the *Amazon CloudFront Developer Guide*.

The minimum amount of time that you want objects to stay in CloudFront caches before CloudFront forwards another request to your origin to determine whether the object has been updated. For more information, see [Managing How Long Content Stays in an Edge Cache \(Expiration\)](#) in the *Amazon CloudFront Developer Guide*.

You must specify `0` for `MinTTL` if you configure CloudFront to forward all headers to your origin (under `Headers`, if you specify `1` for `Quantity` and `*` for `Name`).

Type: Long

Required: No

## OriginRequestPolicyId

The unique identifier of the origin request policy that is attached to the default cache behavior. For more information, see [Creating origin request policies](#) or [Using the managed origin request policies](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

### **RealtimeLogConfigArn**

The Amazon Resource Name (ARN) of the real-time log configuration that is attached to this cache behavior. For more information, see [Real-time logs](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

### **ResponseHeadersPolicyId**

The identifier for a response headers policy.

Type: String

Required: No

### **SmoothStreaming**

Indicates whether you want to distribute media files in the Microsoft Smooth Streaming format using the origin that is associated with this cache behavior. If so, specify `true`; if not, specify `false`. If you specify `true` for `SmoothStreaming`, you can still distribute other content using this cache behavior if the content matches the value of `PathPattern`.

Type: Boolean

Required: No

### **TrustedKeyGroups**

A list of key groups that CloudFront can use to validate signed URLs or signed cookies.

When a cache behavior contains trusted key groups, CloudFront requires signed URLs or signed cookies for all requests that match the cache behavior. The URLs or cookies must be signed with a private key whose corresponding public key is in the key group. The signed URL or cookie contains information about which public key CloudFront should use to verify the signature. For more information, see [Serving private content](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedKeyGroups](#) object

Required: No



## TrustedSigners

### Important

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

A list of AWS account IDs whose public keys CloudFront can use to validate signed URLs or signed cookies.

When a cache behavior contains trusted signers, CloudFront requires signed URLs or signed cookies for all requests that match the cache behavior. The URLs or cookies must be signed with the private key of a CloudFront key pair in a trusted signer's AWS account. The signed URL or cookie contains information about which public key CloudFront should use to verify the signature. For more information, see [Serving private content](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## Distribution

Service: Amazon CloudFront

A distribution tells CloudFront where you want content to be delivered from, and the details about how to track and manage content delivery.

### Contents

#### ARN

The distribution's Amazon Resource Name (ARN).

Type: String

Required: Yes

#### DistributionConfig

The distribution's configuration.

Type: [DistributionConfig](#) object

Required: Yes

#### DomainName

The distribution's CloudFront domain name. For example:  
d111111abcdef8.cloudfront.net.

Type: String

Required: Yes

#### Id

The distribution's identifier. For example: E1U5RQF7T870K0.

Type: String

Required: Yes

#### InProgressInvalidationBatches

The number of invalidation batches currently in progress.

Type: Integer

Required: Yes

### **LastModifiedTime**

The date and time when the distribution was last modified.

Type: Timestamp

Required: Yes

### **Status**

The distribution's status. When the status is `Deployed`, the distribution's information is fully propagated to all CloudFront edge locations.

Type: String

Required: Yes

### **ActiveTrustedKeyGroups**

This field contains a list of key groups and the public keys in each key group that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedKeyGroups](#) object

Required: No

### **ActiveTrustedSigners**

#### **Important**

We recommend using `TrustedKeyGroups` instead of `TrustedSigners`.

This field contains a list of AWS account IDs and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs or signed cookies.

Type: [ActiveTrustedSigners](#) object

Required: No

### **AliasCPRecordals**

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME,

that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasICPRecordal](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DistributionConfig

Service: Amazon CloudFront

A distribution configuration.

## Contents

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `DistributionConfig` object), CloudFront creates a new distribution.

If `CallerReference` is a value that you already sent in a previous request to create a distribution, CloudFront returns a `DistributionAlreadyExists` error.

Type: String

Required: Yes

### Comment

A comment to describe the distribution. The comment cannot be longer than 128 characters.

Type: String

Required: Yes

### DefaultCacheBehavior

A complex type that describes the default cache behavior if you don't specify a `CacheBehavior` element or if files don't match any of the values of `PathPattern` in `CacheBehavior` elements. You must create exactly one default cache behavior.

Type: [DefaultCacheBehavior](#) object

Required: Yes

### Enabled

From this field, you can enable or disable the selected distribution.

Type: Boolean

Required: Yes

## Origins

A complex type that contains information about origins for this distribution.

Type: [Origins](#) object

Required: Yes

## Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this distribution.

Type: [Aliases](#) object

Required: No

## AnycastIpListId

ID of the Anycast static IP list that is associated with the distribution.

Type: String

Required: No

## CacheBehaviors

A complex type that contains zero or more `CacheBehavior` elements.

Type: [CacheBehaviors](#) object

Required: No

## ContinuousDeploymentPolicyId

The identifier of a continuous deployment policy. For more information, see `CreateContinuousDeploymentPolicy`.

Type: String

Required: No

## CustomErrorResponses

A complex type that controls the following:

- Whether CloudFront replaces HTTP status codes in the 4xx and 5xx range with custom error messages before returning the response to the viewer.
- How long CloudFront caches HTTP status codes in the 4xx and 5xx range.

For more information about custom error pages, see [Customizing Error Responses](#) in the *Amazon CloudFront Developer Guide*.

Type: [CustomErrorResponses](#) object

Required: No

## DefaultRootObject

When a viewer requests the root URL for your distribution, the default root object is the object that you want CloudFront to request from your origin. For example, if your root URL is `https://www.example.com`, you can specify CloudFront to return the `index.html` file as the default root object. You can specify a default root object so that viewers see a specific file or object, instead of another object in your distribution (for example, `https://www.example.com/product-description.html`). A default root object avoids exposing the contents of your distribution.

You can specify the object name or a path to the object name (for example, `index.html` or `exampleFolderName/index.html`). Your string can't begin with a forward slash (/). Only specify the object name or the path to the object.

If you don't want to specify a default root object when you create a distribution, include an empty `DefaultRootObject` element.

To delete the default root object from an existing distribution, update the distribution configuration and include an empty `DefaultRootObject` element.

To replace the default root object, update the distribution configuration and specify the new object.

For more information about the default root object, see [Specify a default root object](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

## HttpVersion

(Optional) Specify the HTTP version(s) that you want viewers to use to communicate with CloudFront. The default value for new web distributions is `http2`. Viewers that don't support HTTP/2 automatically use an earlier HTTP version.

For viewers and CloudFront to use HTTP/2, viewers must support TLSv1.2 or later, and must support Server Name Indication (SNI).

For viewers and CloudFront to use HTTP/3, viewers must support TLSv1.3 and Server Name Indication (SNI). CloudFront supports HTTP/3 connection migration to allow the viewer to switch networks without losing connection. For more information about connection migration, see [Connection Migration](#) at RFC 9000. For more information about supported TLSv1.3 ciphers, see [Supported protocols and ciphers between viewers and CloudFront](#).

Type: String

Valid Values: `http1.1` | `http2` | `http3` | `http2and3`

Required: No

## IsIPv6Enabled

If you want CloudFront to respond to IPv6 DNS requests with an IPv6 address for your distribution, specify `true`. If you specify `false`, CloudFront responds to IPv6 DNS requests with the DNS response code `NOERROR` and with no IP addresses. This allows viewers to submit a second request, for an IPv4 address for your distribution.

In general, you should enable IPv6 if you have users on IPv6 networks who want to access your content. However, if you're using signed URLs or signed cookies to restrict access to your content, and if you're using a custom policy that includes the `IpAddress` parameter to restrict the IP addresses that can access your content, don't enable IPv6. If you want to restrict access to some content by IP address and not restrict access to other content (or restrict access but not by IP address), you can create two distributions. For more information, see [Creating a Signed URL Using a Custom Policy](#) in the *Amazon CloudFront Developer Guide*.

If you're using an Amazon Route 53 AWS Integration alias resource record set to route traffic to your CloudFront distribution, you need to create a second alias resource record set when both of the following are true:



- You enable IPv6 for the distribution
- You're using alternate domain names in the URLs for your objects

For more information, see [Routing Traffic to an Amazon CloudFront Web Distribution by Using Your Domain Name](#) in the *Amazon Route 53 AWS Integration Developer Guide*.

If you created a CNAME resource record set, either with Amazon Route 53 AWS Integration or with another DNS service, you don't need to make any changes. A CNAME record will route traffic to your distribution regardless of the IP address format of the viewer request.

Type: Boolean

Required: No

## Logging

A complex type that controls whether access logs are written for the distribution.

For more information about logging, see [Access Logs](#) in the *Amazon CloudFront Developer Guide*.

Type: [LoggingConfig](#) object

Required: No

## OriginGroups

A complex type that contains information about origin groups for this distribution.

Type: [OriginGroups](#) object

Required: No

## PriceClass

The price class that corresponds with the maximum price that you want to pay for CloudFront service. If you specify `PriceClass_All`, CloudFront responds to requests for your objects from all CloudFront edge locations.

If you specify a price class other than `PriceClass_All`, CloudFront serves your objects from the CloudFront edge location that has the lowest latency among the edge locations in your price class. Viewers who are in or near regions that are excluded from your specified price class may encounter slower performance.

For more information about price classes, see [Choosing the Price Class for a CloudFront Distribution](#) in the *Amazon CloudFront Developer Guide*. For information about CloudFront pricing, including how price classes (such as Price Class 100) map to CloudFront regions, see [Amazon CloudFront Pricing](#).

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

Required: No

## Restrictions

A complex type that identifies ways in which you want to restrict distribution of your content.

Type: [Restrictions](#) object

Required: No

## Staging

A Boolean that indicates whether this is a staging distribution. When this value is `true`, this is a staging distribution. When this value is `false`, this is not a staging distribution.

Type: Boolean

Required: No

## ViewerCertificate

A complex type that determines the distribution's SSL/TLS configuration for communicating with viewers.

Type: [ViewerCertificate](#) object

Required: No

## WebACLId

A unique identifier that specifies the AWS WAF web ACL, if any, to associate with this distribution. To specify a web ACL created using the latest version of AWS WAF, use the ACL ARN, for example `arn:aws:wafv2:us-east-1:123456789012:global/webacl/ExampleWebACL/a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`. To specify a web ACL created using AWS WAF Classic, use the ACL ID, for example `a1b2c3d4-5678-90ab-cdef-EXAMPLE11111`.

AWS WAF is a web application firewall that lets you monitor the HTTP and HTTPS requests that are forwarded to CloudFront, and lets you control access to your content. Based on conditions that you specify, such as the IP addresses that requests originate from or the values of query strings, CloudFront responds to requests either with the requested content or with an HTTP 403 status code (Forbidden). You can also configure CloudFront to return a custom error page when a request is blocked. For more information about AWS WAF, see the [AWS WAF Developer Guide](#).

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DistributionConfigWithTags

Service: Amazon CloudFront

A distribution Configuration and a list of tags to be associated with the distribution.

## Contents

### DistributionConfig

A distribution configuration.

Type: [DistributionConfig](#) object

Required: Yes

### Tags

A complex type that contains zero or more Tag elements.

Type: [Tags](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## DistributionIdList

Service: Amazon CloudFront

A list of distribution IDs.

### Contents

#### IsTruncated

A flag that indicates whether more distribution IDs remain to be listed. If your results were truncated, you can make a subsequent request using the `Marker` request field to retrieve more distribution IDs in the list.

Type: Boolean

Required: Yes

#### Marker

The value provided in the `Marker` request field.

Type: String

Required: Yes

#### MaxItems

The maximum number of distribution IDs requested.

Type: Integer

Required: Yes

#### Quantity

The total number of distribution IDs returned in the response.

Type: Integer

Required: Yes

#### Items

Contains the distribution IDs in the list.

Type: Array of strings

Required: No

### **NextMarker**

Contains the value that you should use in the `Marker` field of a subsequent request to continue listing distribution IDs where you left off.

Type: String

Required: No

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DistributionList

Service: Amazon CloudFront

A distribution list.

## Contents

### IsTruncated

A flag that indicates whether more distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more distributions in the list.

Type: Boolean

Required: Yes

### Marker

The value you provided for the `Marker` request parameter.

Type: String

Required: Yes

### MaxItems

The value you provided for the `MaxItems` request parameter.

Type: Integer

Required: Yes

### Quantity

The number of distributions that were created by the current AWS account.

Type: Integer

Required: Yes

### Items

A complex type that contains one `DistributionSummary` element for each distribution that was created by the current AWS account.

Type: Array of [DistributionSummary](#) objects

Required: No

### NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your distributions where they left off.

Type: String

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# DistributionSummary

Service: Amazon CloudFront

A summary of the information about a CloudFront distribution.

## Contents

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this distribution.

Type: [Aliases](#) object

Required: Yes

### ARN

The ARN (Amazon Resource Name) for the distribution. For example:  
`arn:aws:cloudfront::123456789012:distribution/EDFDVBD632BHDS5`, where  
123456789012 is your AWS account ID.

Type: String

Required: Yes

### CacheBehaviors

A complex type that contains zero or more `CacheBehavior` elements.

Type: [CacheBehaviors](#) object

Required: Yes

### Comment

The comment originally specified when this distribution was created.

Type: String

Required: Yes

### CustomErrorResponses

A complex type that contains zero or more `CustomErrorResponses` elements.

Type: [CustomErrorResponses](#) object

Required: Yes

### **DefaultCacheBehavior**

A complex type that describes the default cache behavior if you don't specify a `CacheBehavior` element or if files don't match any of the values of `PathPattern` in `CacheBehavior` elements. You must create exactly one default cache behavior.

Type: [DefaultCacheBehavior](#) object

Required: Yes

### **DomainName**

The domain name that corresponds to the distribution, for example, `d111111abcdef8.cloudfront.net`.

Type: String

Required: Yes

### **Enabled**

Whether the distribution is enabled to accept user requests for content.

Type: Boolean

Required: Yes

### **HttpVersion**

Specify the maximum HTTP version that you want viewers to use to communicate with CloudFront. The default value for new web distributions is `http2`. Viewers that don't support HTTP/2 will automatically use an earlier version.

Type: String

Valid Values: `http1.1` | `http2` | `http3` | `http2and3`

Required: Yes

### **Id**

The identifier for the distribution. For example: `EDFDVBD632BHDS5`.

Type: String

Required: Yes

### **IsIPv6Enabled**

Whether CloudFront responds to IPv6 DNS requests with an IPv6 address for your distribution.

Type: Boolean

Required: Yes

### **LastModifiedTime**

The date and time the distribution was last modified.

Type: Timestamp

Required: Yes

### **Origins**

A complex type that contains information about origins for this distribution.

Type: [Origins](#) object

Required: Yes

### **PriceClass**

A complex type that contains information about price class for this streaming distribution.

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

Required: Yes

### **Restrictions**

A complex type that identifies ways in which you want to restrict distribution of your content.

Type: [Restrictions](#) object

Required: Yes

## Staging

A Boolean that indicates whether this is a staging distribution. When this value is `true`, this is a staging distribution. When this value is `false`, this is not a staging distribution.

Type: Boolean

Required: Yes

## Status

The current status of the distribution. When the status is `Deployed`, the distribution's information is propagated to all CloudFront edge locations.

Type: String

Required: Yes

## ViewerCertificate

A complex type that determines the distribution's SSL/TLS configuration for communicating with viewers.

Type: [ViewerCertificate](#) object

Required: Yes

## WebACLId

The Web ACL Id (if any) associated with the distribution.

Type: String

Required: Yes

## AliasICPRecordals

AWS services in China customers must file for an Internet Content Provider (ICP) recordal if they want to serve content publicly on an alternate domain name, also known as a CNAME, that they've added to CloudFront. `AliasICPRecordal` provides the ICP recordal status for CNAMEs associated with distributions.

For more information about ICP recordals, see [Signup, Accounts, and Credentials](#) in *Getting Started with AWS services in China*.

Type: Array of [AliasIPRecordal](#) objects

Required: No

### **AnycastIpListId**

ID of the Anycast static IP list that is associated with the distribution.

Type: String

Required: No

### **OriginGroups**

A complex type that contains information about origin groups for this distribution.

Type: [OriginGroups](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EncryptionEntities

Service: Amazon CloudFront

Complex data type for field-level encryption profiles that includes all of the encryption entities.

## Contents

### Quantity

Number of field pattern items in a field-level encryption content type-profile mapping.

Type: Integer

Required: Yes

### Items

An array of field patterns in a field-level encryption content type-profile mapping.

Type: Array of [EncryptionEntity](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EncryptionEntity

Service: Amazon CloudFront

Complex data type for field-level encryption profiles that includes the encryption key and field pattern specifications.

## Contents

### FieldPatterns

Field patterns in a field-level encryption content type profile specify the fields that you want to be encrypted. You can provide the full field name, or any beginning characters followed by a wildcard (\*). You can't overlap field patterns. For example, you can't have both ABC\* and AB\*. Note that field patterns are case-sensitive.

Type: [FieldPatterns](#) object

Required: Yes

### ProviderId

The provider associated with the public key being used for encryption. This value must also be provided with the private key for applications to be able to decrypt data.

Type: String

Required: Yes

### PublicKeyId

The public key associated with a set of field-level encryption patterns, to be used when encrypting the fields that match the patterns.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



## EndPoint

Service: Amazon CloudFront

Contains information about the Amazon Kinesis data stream where you are sending real-time log data in a real-time log configuration.

### Contents

#### StreamType

The type of data stream where you are sending real-time log data. The only valid value is `Kinesis`.

Type: String

Required: Yes

#### KinesisStreamConfig

Contains information about the Amazon Kinesis data stream where you are sending real-time log data.

Type: [KinesisStreamConfig](#) object

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryption

Service: Amazon CloudFront

A complex data type that includes the profile configurations and other options specified for field-level encryption.

## Contents

### FieldLevelEncryptionConfig

A complex data type that includes the profile configurations specified for field-level encryption.

Type: [FieldLevelEncryptionConfig](#) object

Required: Yes

#### Id

The configuration ID for a field-level encryption configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

Required: Yes

#### LastModifiedTime

The last time the field-level encryption configuration was changed.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionConfig

Service: Amazon CloudFront

A complex data type that includes the profile configurations specified for field-level encryption.

## Contents

### CallerReference

A unique number that ensures the request can't be replayed.

Type: String

Required: Yes

### Comment

An optional comment about the configuration. The comment cannot be longer than 128 characters.

Type: String

Required: No

### ContentTypeProfileConfig

A complex data type that specifies when to forward content if a content type isn't recognized and profiles to use as by default in a request if a query argument doesn't specify a profile to use.

Type: [ContentTypeProfileConfig](#) object

Required: No

### QueryArgProfileConfig

A complex data type that specifies when to forward content if a profile isn't found and the profile that can be provided as a query argument in a request.

Type: [QueryArgProfileConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionList

Service: Amazon CloudFront

List of field-level encryption configurations.

## Contents

### MaxItems

The maximum number of elements you want in the response body.

Type: Integer

Required: Yes

### Quantity

The number of field-level encryption items.

Type: Integer

Required: Yes

### Items

An array of field-level encryption items.

Type: Array of [FieldLevelEncryptionSummary](#) objects

Required: No

### NextMarker

If there are more elements to be listed, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your configurations where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionProfile

Service: Amazon CloudFront

A complex data type for field-level encryption profiles.

## Contents

### FieldLevelEncryptionProfileConfig

A complex data type that includes the profile name and the encryption entities for the field-level encryption profile.

Type: [FieldLevelEncryptionProfileConfig](#) object

Required: Yes

### Id

The ID for a field-level encryption profile configuration which includes a set of profiles that specify certain selected data fields to be encrypted by specific public keys.

Type: String

Required: Yes

### LastModifiedTime

The last time the field-level encryption profile was updated.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionProfileConfig

Service: Amazon CloudFront

A complex data type of profiles for the field-level encryption.

## Contents

### CallerReference

A unique number that ensures that the request can't be replayed.

Type: String

Required: Yes

### EncryptionEntities

A complex data type of encryption entities for the field-level encryption profile that include the public key ID, provider, and field patterns for specifying which fields to encrypt with this key.

Type: [EncryptionEntities](#) object

Required: Yes

### Name

Profile name for the field-level encryption profile.

Type: String

Required: Yes

### Comment

An optional comment for the field-level encryption profile. The comment cannot be longer than 128 characters.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:



- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionProfileList

Service: Amazon CloudFront

List of field-level encryption profiles.

## Contents

### MaxItems

The maximum number of field-level encryption profiles you want in the response body.

Type: Integer

Required: Yes

### Quantity

The number of field-level encryption profiles.

Type: Integer

Required: Yes

### Items

The field-level encryption profile items.

Type: Array of [FieldLevelEncryptionProfileSummary](#) objects

Required: No

### NextMarker

If there are more elements to be listed, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your profiles where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionProfileSummary

Service: Amazon CloudFront

The field-level encryption profile summary.

## Contents

### EncryptionEntities

A complex data type of encryption entities for the field-level encryption profile that include the public key ID, provider, and field patterns for specifying which fields to encrypt with this key.

Type: [EncryptionEntities](#) object

Required: Yes

### Id

ID for the field-level encryption profile summary.

Type: String

Required: Yes

### LastModifiedTime

The time when the field-level encryption profile summary was last updated.

Type: Timestamp

Required: Yes

### Name

Name for the field-level encryption profile summary.

Type: String

Required: Yes

### Comment

An optional comment for the field-level encryption profile summary. The comment cannot be longer than 128 characters.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldLevelEncryptionSummary

Service: Amazon CloudFront

A summary of a field-level encryption item.

## Contents

### Id

The unique ID of a field-level encryption item.

Type: String

Required: Yes

### LastModifiedTime

The last time that the summary of field-level encryption items was modified.

Type: Timestamp

Required: Yes

### Comment

An optional comment about the field-level encryption item. The comment cannot be longer than 128 characters.

Type: String

Required: No

### ContentTypeProfileConfig

A summary of a content type-profile mapping.

Type: [ContentTypeProfileConfig](#) object

Required: No

### QueryArgProfileConfig

A summary of a query argument-profile mapping.

Type: [QueryArgProfileConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FieldPatterns

Service: Amazon CloudFront

A complex data type that includes the field patterns to match for field-level encryption.

## Contents

### Quantity

The number of field-level encryption field patterns.

Type: Integer

Required: Yes

### Items

An array of the field-level encryption field patterns.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



## ForwardedValues

Service: Amazon CloudFront

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include values in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send values to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

A complex type that specifies how CloudFront handles query strings, cookies, and HTTP headers.

### Contents

#### Cookies

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include cookies in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send cookies to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

A complex type that specifies whether you want CloudFront to forward cookies to the origin and, if so, which ones. For more information about forwarding cookies to the origin, see [How CloudFront Forwards, Caches, and Logs Cookies](#) in the *Amazon CloudFront Developer Guide*.

Type: [CookiePreference](#) object

Required: Yes

#### QueryString

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include query strings in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send query strings to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

Indicates whether you want CloudFront to forward query strings to the origin that is associated with this cache behavior and cache based on the query string parameters. CloudFront behavior depends on the value of `QueryString` and on the values that you specify for `QueryStringCacheKeys`, if any:

If you specify `true` for `QueryString` and you don't specify any values for `QueryStringCacheKeys`, CloudFront forwards all query string parameters to the origin and caches based on all query string parameters. Depending on how many query string parameters and values you have, this can adversely affect performance because CloudFront must forward more requests to the origin.

If you specify `true` for `QueryString` and you specify one or more values for `QueryStringCacheKeys`, CloudFront forwards all query string parameters to the origin, but it only caches based on the query string parameters that you specify.

If you specify `false` for `QueryString`, CloudFront doesn't forward any query string parameters to the origin, and doesn't cache based on query string parameters.

For more information, see [Configuring CloudFront to Cache Based on Query String Parameters](#) in the *Amazon CloudFront Developer Guide*.

Type: Boolean

Required: Yes

## Headers

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include headers in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send headers to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

A complex type that specifies the Headers, if any, that you want CloudFront to forward to the origin for this cache behavior (whitelisted headers). For the headers that you specify, CloudFront also caches separate versions of a specified object that is based on the header values in viewer requests.

For more information, see [Caching Content Based on Request Headers](#) in the *Amazon CloudFront Developer Guide*.

Type: [Headers](#) object

Required: No

## QueryStringCacheKeys

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include query strings in the cache key, use a cache policy. For more information, see [Creating cache policies](#) in the *Amazon CloudFront Developer Guide*.

If you want to send query strings to the origin but not include them in the cache key, use an origin request policy. For more information, see [Creating origin request policies](#) in the *Amazon CloudFront Developer Guide*.

A complex type that contains information about the query string parameters that you want CloudFront to use for caching for this cache behavior.

Type: [QueryStringCacheKeys](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FunctionAssociation

Service: Amazon CloudFront

A CloudFront function that is associated with a cache behavior in a CloudFront distribution.

## Contents

### EventType

The event type of the function, either `viewer-request` or `viewer-response`. You cannot use origin-facing event types (`origin-request` and `origin-response`) with a CloudFront function.

Type: String

Valid Values: `viewer-request` | `viewer-response` | `origin-request` | `origin-response`

Required: Yes

### FunctionARN

The Amazon Resource Name (ARN) of the function.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 108.

Pattern: `arn:aws:cloudfront::[0-9]{12}:function\[a-zA-Z0-9-\_]{1,64}`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FunctionAssociations

Service: Amazon CloudFront

A list of CloudFront functions that are associated with a cache behavior in a CloudFront distribution. Your functions must be published to the LIVE stage to associate them with a cache behavior.

## Contents

### Quantity

The number of CloudFront functions in the list.

Type: Integer

Required: Yes

### Items

The CloudFront functions that are associated with a cache behavior in a CloudFront distribution. Your functions must be published to the LIVE stage to associate them with a cache behavior.

Type: Array of [FunctionAssociation](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FunctionConfig

Service: Amazon CloudFront

Contains configuration information about a CloudFront function.

## Contents

### Comment

A comment to describe the function.

Type: String

Required: Yes

### Runtime

The function's runtime environment version.

Type: String

Valid Values: `cloudfront-js-1.0` | `cloudfront-js-2.0`

Required: Yes

### KeyValueStoreAssociations

The configuration for the key value store associations.

Type: [KeyValueStoreAssociations](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FunctionList

Service: Amazon CloudFront

A list of CloudFront functions.

## Contents

### MaxItems

The maximum number of functions requested.

Type: Integer

Required: Yes

### Quantity

The number of functions returned in the response.

Type: Integer

Required: Yes

### Items

Contains the functions in the list.

Type: Array of [FunctionSummary](#) objects

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing functions where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:



- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# FunctionMetadata

Service: Amazon CloudFront

Contains metadata about a CloudFront function.

## Contents

### FunctionARN

The Amazon Resource Name (ARN) of the function. The ARN uniquely identifies the function.

Type: String

Required: Yes

### LastModifiedTime

The date and time when the function was most recently updated.

Type: Timestamp

Required: Yes

### CreatedTime

The date and time when the function was created.

Type: Timestamp

Required: No

### Stage

The stage that the function is in, either DEVELOPMENT or LIVE.

When a function is in the DEVELOPMENT stage, you can test the function with `TestFunction`, and update it with `UpdateFunction`.

When a function is in the LIVE stage, you can attach the function to a distribution's cache behavior, using the function's ARN.

Type: String

Valid Values: DEVELOPMENT | LIVE

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## FunctionSummary

Service: Amazon CloudFront

Contains configuration information and metadata about a CloudFront function.

### Contents

#### FunctionConfig

Contains configuration information about a CloudFront function.

Type: [FunctionConfig](#) object

Required: Yes

#### FunctionMetadata

Contains metadata about a CloudFront function.

Type: [FunctionMetadata](#) object

Required: Yes

#### Name

The name of the CloudFront function.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_{1,64}`

Required: Yes

#### Status

The status of the CloudFront function.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GeoRestriction

Service: Amazon CloudFront

A complex type that controls the countries in which your content is distributed. CloudFront determines the location of your users using MaxMind GeoIP databases.

## Contents

### Quantity

When geo restriction is enabled, this is the number of countries in your `whitelist` or `blacklist`. Otherwise, when it is not enabled, `Quantity` is `0`, and you can omit `Items`.

Type: Integer

Required: Yes

### RestrictionType

The method that you want to use to restrict distribution of your content by country:

- `none`: No geo restriction is enabled, meaning access to content is not restricted by client geo location.
- `blacklist`: The `Location` elements specify the countries in which you don't want CloudFront to distribute your content.
- `whitelist`: The `Location` elements specify the countries in which you want CloudFront to distribute your content.

Type: String

Valid Values: `blacklist` | `whitelist` | `none`

Required: Yes

### Items

A complex type that contains a `Location` element for each country in which you want CloudFront either to distribute your content (`whitelist`) or not distribute your content (`blacklist`).

The `Location` element is a two-letter, uppercase country code for a country that you want to include in your `blacklist` or `whitelist`. Include one `Location` element for each country.

CloudFront and MaxMind both use ISO 3166 country codes. For the current list of countries and the corresponding codes, see ISO 3166-1-alpha-2 code on the *International Organization for Standardization* website. You can also refer to the country list on the CloudFront console, which includes both country names and codes.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GrpcConfig

Service: Amazon CloudFront

Amazon CloudFront supports gRPC, an open-source remote procedure call (RPC) framework built on HTTP/2. gRPC offers bi-directional streaming and binary protocol that buffers payloads, making it suitable for applications that require low latency communications.

To enable your distribution to handle gRPC requests, you must include HTTP/2 as one of the supported HTTP versions and allow HTTP methods, including POST.

For more information, see [Using gRPC with CloudFront distributions](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Enabled

Enables your CloudFront distribution to receive gRPC requests and to proxy them directly to your origins.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



## Headers

Service: Amazon CloudFront

Contains a list of HTTP header names.

### Contents

#### Quantity

The number of header names in the `Items` list.

Type: Integer

Required: Yes

#### Items

A list of HTTP header names.

Type: Array of strings

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ImportSource

Service: Amazon CloudFront

The import source for the key value store.

## Contents

### SourceARN

The Amazon Resource Name (ARN) of the import source for the key value store.

Type: String

Required: Yes

### SourceType

The source type of the import source for the key value store.

Type: String

Valid Values: S3

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Invalidation

Service: Amazon CloudFront

An invalidation.

## Contents

### CreateTime

The date and time the invalidation request was first made.

Type: Timestamp

Required: Yes

### Id

The identifier for the invalidation request. For example: IDFDVBD632BHDS5.

Type: String

Required: Yes

### InvalidationBatch

The current invalidation information for the batch request.

Type: [InvalidationBatch](#) object

Required: Yes

### Status

The status of the invalidation request. When the invalidation batch is finished, the status is `Completed`.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InvalidationBatch

Service: Amazon CloudFront

An invalidation batch.

## Contents

### CallerReference

A value that you specify to uniquely identify an invalidation request. CloudFront uses the value to prevent you from accidentally resubmitting an identical request. Whenever you create a new invalidation request, you must specify a new value for `CallerReference` and change other values in the request as applicable. One way to ensure that the value of `CallerReference` is unique is to use a timestamp, for example, `20120301090000`.

If you make a second invalidation request with the same value for `CallerReference`, and if the rest of the request is the same, CloudFront doesn't create a new invalidation request. Instead, CloudFront returns information about the invalidation request that you previously created with the same `CallerReference`.

If `CallerReference` is a value you already sent in a previous invalidation batch request but the content of any `Path` is different from the original request, CloudFront returns an `InvalidationBatchAlreadyExists` error.

Type: String

Required: Yes

### Paths

A complex type that contains information about the objects that you want to invalidate. For more information, see [Specifying the Objects to Invalidate](#) in the *Amazon CloudFront Developer Guide*.

Type: [Paths](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InvalidationList

Service: Amazon CloudFront

The `InvalidationList` complex type describes the list of invalidation objects. For more information about invalidation, see [Invalidating Objects \(Web Distributions Only\)](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### IsTruncated

A flag that indicates whether more invalidation batch requests remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more invalidation batches in the list.

Type: Boolean

Required: Yes

### Marker

The value that you provided for the `Marker` request parameter.

Type: String

Required: Yes

### MaxItems

The value that you provided for the `MaxItems` request parameter.

Type: Integer

Required: Yes

### Quantity

The number of invalidation batches that were created by the current AWS account.

Type: Integer

Required: Yes

## Items

A complex type that contains one `InvalidationSummary` element for each invalidation batch created by the current AWS account.

Type: Array of [InvalidationSummary](#) objects

Required: No

## NextMarker

If `IsTruncated` is `true`, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your invalidation batches where they left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# InvalidationSummary

Service: Amazon CloudFront

A summary of an invalidation request.

## Contents

### CreateTime

The time that an invalidation request was created.

Type: Timestamp

Required: Yes

### Id

The unique ID for an invalidation request.

Type: String

Required: Yes

### Status

The status of an invalidation request.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KeyGroup

Service: Amazon CloudFront

A key group.

A key group contains a list of public keys that you can use with [CloudFront signed URLs and signed cookies](#).

## Contents

### Id

The identifier for the key group.

Type: String

Required: Yes

### KeyGroupConfig

The key group configuration.

Type: [KeyGroupConfig](#) object

Required: Yes

### LastModifiedTime

The date and time when the key group was last modified.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# KeyGroupConfig

Service: Amazon CloudFront

A key group configuration.

A key group contains a list of public keys that you can use with [CloudFront signed URLs and signed cookies](#).

## Contents

### Items

A list of the identifiers of the public keys in the key group.

Type: Array of strings

Required: Yes

### Name

A name to identify the key group.

Type: String

Required: Yes

### Comment

A comment to describe the key group. The comment cannot be longer than 128 characters.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# KeyGroupList

Service: Amazon CloudFront

A list of key groups.

## Contents

### MaxItems

The maximum number of key groups requested.

Type: Integer

Required: Yes

### Quantity

The number of key groups returned in the response.

Type: Integer

Required: Yes

### Items

A list of key groups.

Type: Array of [KeyGroupSummary](#) objects

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing key groups.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KeyGroupSummary

Service: Amazon CloudFront

Contains information about a key group.

## Contents

### KeyGroup

A key group.

Type: [KeyGroup](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# KeyPairIds

Service: Amazon CloudFront

A list of CloudFront key pair identifiers.

## Contents

### Quantity

The number of key pair identifiers in the list.

Type: Integer

Required: Yes

### Items

A list of CloudFront key pair identifiers.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KeyValueStore

Service: Amazon CloudFront

The key value store. Use this to separate data from function code, allowing you to update data without having to publish a new version of a function. The key value store holds keys and their corresponding values.

## Contents

### ARN

The Amazon Resource Name (ARN) of the key value store.

Type: String

Required: Yes

### Comment

A comment for the key value store.

Type: String

Required: Yes

### Id

The unique Id for the key value store.

Type: String

Required: Yes

### LastModifiedTime

The last-modified time of the key value store.

Type: Timestamp

Required: Yes

### Name

The name of the key value store.

Type: String

Required: Yes

## Status

The status of the key value store.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KeyValueStoreAssociation

Service: Amazon CloudFront

The key value store association.

## Contents

### KeyValueStoreARN

The Amazon Resource Name (ARN) of the key value store association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 85.

Pattern: `arn:aws:cloudfront::[0-9]{12}:key-value-store\/[0-9a-fA-F-]{36}`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KeyValueStoreAssociations

Service: Amazon CloudFront

The key value store associations.

## Contents

### Quantity

The quantity of key value store associations.

Type: Integer

Required: Yes

### Items

The items of the key value store association.

Type: Array of [KeyValueStoreAssociation](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KeyValueStoreList

Service: Amazon CloudFront

The key value store list.

## Contents

### MaxItems

The maximum number of items in the key value store list.

Type: Integer

Required: Yes

### Quantity

The quantity of the key value store list.

Type: Integer

Required: Yes

### Items

The items of the key value store list.

Type: Array of [KeyValueStore](#) objects

Required: No

### NextMarker

The next marker associated with the key value store list.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# KGKeyPairIds

Service: Amazon CloudFront

A list of identifiers for the public keys that CloudFront can use to verify the signatures of signed URLs and signed cookies.

## Contents

### KeyGroupId

The identifier of the key group that contains the public keys.

Type: String

Required: No

### KeyPairIds

A list of CloudFront key pair identifiers.

Type: [KeyPairIds](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# KinesisStreamConfig

Service: Amazon CloudFront

Contains information about the Amazon Kinesis data stream where you are sending real-time log data.

## Contents

### RoleARN

The Amazon Resource Name (ARN) of an AWS Identity and Access Management (IAM) role that CloudFront can use to send real-time log data to your Kinesis data stream.

For more information the IAM role, see [Real-time log configuration IAM role](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: Yes

### StreamARN

The Amazon Resource Name (ARN) of the Kinesis data stream where you are sending real-time log data.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LambdaFunctionAssociation

Service: Amazon CloudFront

A complex type that contains a Lambda@Edge function association.

## Contents

### EventType

Specifies the event type that triggers a Lambda@Edge function invocation. You can specify the following values:

- `viewer-request`: The function executes when CloudFront receives a request from a viewer and before it checks to see whether the requested object is in the edge cache.
- `origin-request`: The function executes only when CloudFront sends a request to your origin. When the requested object is in the edge cache, the function doesn't execute.
- `origin-response`: The function executes after CloudFront receives a response from the origin and before it caches the object in the response. When the requested object is in the edge cache, the function doesn't execute.
- `viewer-response`: The function executes before CloudFront returns the requested object to the viewer. The function executes regardless of whether the object was already in the edge cache.

If the origin returns an HTTP status code other than HTTP 200 (OK), the function doesn't execute.

Type: String

Valid Values: `viewer-request` | `viewer-response` | `origin-request` | `origin-response`

Required: Yes

### LambdaFunctionARN

The ARN of the Lambda@Edge function. You must specify the ARN of a function version; you can't specify an alias or `$LATEST`.

Type: String

Required: Yes

## IncludeBody

A flag that allows a Lambda@Edge function to have read access to the body content. For more information, see [Accessing the Request Body by Choosing the Include Body Option](#) in the Amazon CloudFront Developer Guide.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LambdaFunctionAssociations

Service: Amazon CloudFront

A complex type that specifies a list of Lambda@Edge functions associations for a cache behavior.

If you want to invoke one or more Lambda@Edge functions triggered by requests that match the PathPattern of the cache behavior, specify the applicable values for Quantity and Items. Note that there can be up to 4 LambdaFunctionAssociation items in this list (one for each possible value of EventType) and each EventType can be associated with only one function.

If you don't want to invoke any Lambda@Edge functions for the requests that match PathPattern, specify 0 for Quantity and omit Items.

## Contents

### Quantity

The number of Lambda@Edge function associations for this cache behavior.

Type: Integer

Required: Yes

### Items

**Optional:** A complex type that contains LambdaFunctionAssociation items for this cache behavior. If Quantity is 0, you can omit Items.

Type: Array of [LambdaFunctionAssociation](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# LoggingConfig

Service: Amazon CloudFront

A complex type that specifies whether access logs are written for the distribution.

## Note

If you already enabled standard logging (legacy) and you want to enable standard logging (v2) to send your access logs to Amazon S3, we recommend that you specify a *different* Amazon S3 bucket or use a *separate path* in the same bucket (for example, use a log prefix or partitioning). This helps you keep track of which log files are associated with which logging subscription and prevents log files from overwriting each other. For more information, see [Standard logging \(access logs\)](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Bucket

The Amazon S3 bucket to store the access logs in, for example, `amzn-s3-demo-bucket.s3.amazonaws.com`.

Type: String

Required: No

### Enabled

Specifies whether you want CloudFront to save access logs to an Amazon S3 bucket. If you don't want to enable logging when you create a distribution or if you want to disable logging for an existing distribution, specify `false` for `Enabled`, and specify empty `Bucket` and `Prefix` elements. If you specify `false` for `Enabled` but you specify values for `Bucket` and `prefix`, the values are automatically deleted.

Type: Boolean

Required: No

### IncludeCookies

Specifies whether you want CloudFront to include cookies in access logs, specify `true` for `IncludeCookies`. If you choose to include cookies in logs, CloudFront logs all cookies

regardless of how you configure the cache behaviors for this distribution. If you don't want to include cookies when you create a distribution or if you want to disable include cookies for an existing distribution, specify `false` for `IncludeCookies`.

Type: Boolean

Required: No

### Prefix

An optional string that you want CloudFront to prefix to the access log filenames for this distribution, for example, `myprefix/`. If you want to enable logging, but you don't want to specify a prefix, you still must include an empty `Prefix` element in the `Logging` element.

Type: String

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MonitoringSubscription

Service: Amazon CloudFront

A monitoring subscription. This structure contains information about whether additional CloudWatch metrics are enabled for a given CloudFront distribution.

## Contents

### RealtimeMetricsSubscriptionConfig

A subscription configuration for additional CloudWatch metrics.

Type: [RealtimeMetricsSubscriptionConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# Origin

Service: Amazon CloudFront

An origin.

An origin is the location where content is stored, and from which CloudFront gets content to serve to viewers. To specify an origin:

- Use `S3OriginConfig` to specify an Amazon S3 bucket that is not configured with static website hosting.
- Use `CustomOriginConfig` to specify all other kinds of origins, including:
  - An Amazon S3 bucket that is configured with static website hosting
  - An Elastic Load Balancing load balancer
  - An AWS Elemental MediaPackage endpoint
  - An AWS Elemental MediaStore container
  - Any other HTTP server, running on an Amazon EC2 instance or any other kind of host

For the current maximum number of origins that you can specify per distribution, see [General Quotas on Web Distributions](#) in the *Amazon CloudFront Developer Guide* (quotas were formerly referred to as limits).

## Contents

### DomainName

The domain name for the origin.

For more information, see [Origin Domain Name](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: Yes

### Id

A unique identifier for the origin. This value must be unique within the distribution.

Use this value to specify the `TargetOriginId` in a `CacheBehavior` or `DefaultCacheBehavior`.

Type: String

Required: Yes

### ConnectionAttempts

The number of times that CloudFront attempts to connect to the origin. The minimum number is 1, the maximum is 3, and the default (if you don't specify otherwise) is 3.

For a custom origin (including an Amazon S3 bucket that's configured with static website hosting), this value also specifies the number of times that CloudFront attempts to get a response from the origin, in the case of an [Origin Response Timeout](#).

For more information, see [Origin Connection Attempts](#) in the *Amazon CloudFront Developer Guide*.

Type: Integer

Required: No

### ConnectionTimeout

The number of seconds that CloudFront waits when trying to establish a connection to the origin. The minimum timeout is 1 second, the maximum is 10 seconds, and the default (if you don't specify otherwise) is 10 seconds.

For more information, see [Origin Connection Timeout](#) in the *Amazon CloudFront Developer Guide*.

Type: Integer

Required: No

### CustomHeaders

A list of HTTP header names and values that CloudFront adds to the requests that it sends to the origin.

For more information, see [Adding Custom Headers to Origin Requests](#) in the *Amazon CloudFront Developer Guide*.

Type: [CustomHeaders](#) object

Required: No

## CustomOriginConfig

Use this type to specify an origin that is not an Amazon S3 bucket, with one exception. If the Amazon S3 bucket is configured with static website hosting, use this type. If the Amazon S3 bucket is not configured with static website hosting, use the `S3OriginConfig` type instead.

Type: [CustomOriginConfig](#) object

Required: No

## OriginAccessControlId

The unique identifier of an origin access control for this origin.

For more information, see [Restricting access to an Amazon S3 origin](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

## OriginPath

An optional path that CloudFront appends to the origin domain name when CloudFront requests content from the origin.

For more information, see [Origin Path](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

## OriginShield

CloudFront Origin Shield. Using Origin Shield can help reduce the load on your origin.

For more information, see [Using Origin Shield](#) in the *Amazon CloudFront Developer Guide*.

Type: [OriginShield](#) object

Required: No

## S3OriginConfig

Use this type to specify an origin that is an Amazon S3 bucket that is not configured with static website hosting. To specify any other type of origin, including an Amazon S3 bucket that is configured with static website hosting, use the `CustomOriginConfig` type instead.

Type: [S3OriginConfig](#) object

Required: No

### **VpcOriginConfig**

The VPC origin configuration.

Type: [VpcOriginConfig](#) object

Required: No

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginAccessControl

Service: Amazon CloudFront

A CloudFront origin access control, including its unique identifier.

## Contents

### Id

The unique identifier of the origin access control.

Type: String

Required: Yes

### OriginAccessControlConfig

The origin access control.

Type: [OriginAccessControlConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginAccessControlConfig

Service: Amazon CloudFront

A CloudFront origin access control configuration.

## Contents

### Name

A name to identify the origin access control. You can specify up to 64 characters.

Type: String

Required: Yes

### OriginAccessControlOriginType

The type of origin that this origin access control is for.

Type: String

Valid Values: `s3` | `mediastore` | `mediapackagev2` | `lambda`

Required: Yes

### SigningBehavior

Specifies which requests CloudFront signs (adds authentication information to). Specify `always` for the most common use case. For more information, see [origin access control advanced settings](#) in the *Amazon CloudFront Developer Guide*.

This field can have one of the following values:

- `always` – CloudFront signs all origin requests, overwriting the `Authorization` header from the viewer request if one exists.
- `never` – CloudFront doesn't sign any origin requests. This value turns off origin access control for all origins in all distributions that use this origin access control.
- `no-override` – If the viewer request doesn't contain the `Authorization` header, then CloudFront signs the origin request. If the viewer request contains the `Authorization` header, then CloudFront doesn't sign the origin request and instead passes along the `Authorization` header from the viewer request. **WARNING: To pass along the `Authorization` header from the viewer request, you *must* add the `Authorization`**

header to a [cache policy](#) for all cache behaviors that use origins associated with this origin access control.

Type: String

Valid Values: never | always | no-override

Required: Yes

### SigningProtocol

The signing protocol of the origin access control, which determines how CloudFront signs (authenticates) requests. The only valid value is `sigv4`.

Type: String

Valid Values: `sigv4`

Required: Yes

### Description

A description of the origin access control.

Type: String

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginAccessControlList

Service: Amazon CloudFront

A list of CloudFront origin access controls.

## Contents

### IsTruncated

If there are more items in the list than are in this response, this value is `true`.

Type: Boolean

Required: Yes

### Marker

The value of the `Marker` field that was provided in the request.

Type: String

Required: Yes

### MaxItems

The maximum number of origin access controls requested.

Type: Integer

Required: Yes

### Quantity

The number of origin access controls returned in the response.

Type: Integer

Required: Yes

### Items

Contains the origin access controls in the list.

Type: Array of [OriginAccessControlSummary](#) objects

Required: No



## NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value to use in the `Marker` field of another request to continue listing origin access controls.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginAccessControlSummary

Service: Amazon CloudFront

A CloudFront origin access control.

## Contents

### Description

A description of the origin access control.

Type: String

Required: Yes

### Id

The unique identifier of the origin access control.

Type: String

Required: Yes

### Name

A unique name that identifies the origin access control.

Type: String

Required: Yes

### OriginAccessControlOriginType

The type of origin that this origin access control is for.

Type: String

Valid Values: `s3` | `mediastore` | `mediapackagev2` | `lambda`

Required: Yes

### SigningBehavior

A value that specifies which requests CloudFront signs (adds authentication information to). This field can have one of the following values:

- `never` – CloudFront doesn't sign any origin requests.
- `always` – CloudFront signs all origin requests, overwriting the `Authorization` header from the viewer request if necessary.
- `no-override` – If the viewer request doesn't contain the `Authorization` header, CloudFront signs the origin request. If the viewer request contains the `Authorization` header, CloudFront doesn't sign the origin request, but instead passes along the `Authorization` header that it received in the viewer request.

Type: String

Valid Values: `never` | `always` | `no-override`

Required: Yes

## SigningProtocol

The signing protocol of the origin access control. The signing protocol determines how CloudFront signs (authenticates) requests. The only valid value is `sigv4`.

Type: String

Valid Values: `sigv4`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginCustomHeader

Service: Amazon CloudFront

A complex type that contains `HeaderName` and `HeaderValue` elements, if any, for this distribution.

## Contents

### HeaderName

The name of a header that you want CloudFront to send to your origin. For more information, see [Adding Custom Headers to Origin Requests](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: Yes

### HeaderValue

The value for the header that you specified in the `HeaderName` field.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginGroup

Service: Amazon CloudFront

An origin group includes two origins (a primary origin and a secondary origin to failover to) and a failover criteria that you specify. You create an origin group to support origin failover in CloudFront. When you create or update a distribution, you can specify the origin group instead of a single origin, and CloudFront will failover from the primary origin to the secondary origin under the failover conditions that you've chosen.

Optionally, you can choose selection criteria for your origin group to specify how your origins are selected when your distribution routes viewer requests.

## Contents

### FailoverCriteria

A complex type that contains information about the failover criteria for an origin group.

Type: [OriginGroupFailoverCriteria](#) object

Required: Yes

### Id

The origin group's ID.

Type: String

Required: Yes

### Members

A complex type that contains information about the origins in an origin group.

Type: [OriginGroupMembers](#) object

Required: Yes

### SelectionCriteria

The selection criteria for the origin group. For more information, see [Create an origin group](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Valid Values: default | media-quality-based

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginGroupFailoverCriteria

Service: Amazon CloudFront

A complex data type that includes information about the failover criteria for an origin group, including the status codes for which CloudFront will failover from the primary origin to the second origin.

## Contents

### StatusCodes

The status codes that, when returned from the primary origin, will trigger CloudFront to failover to the second origin.

Type: [StatusCodes](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginGroupMember

Service: Amazon CloudFront

An origin in an origin group.

## Contents

### OriginId

The ID for an origin in an origin group.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# OriginGroupMembers

Service: Amazon CloudFront

A complex data type for the origins included in an origin group.

## Contents

### Items

Items (origins) in an origin group.

Type: Array of [OriginGroupMember](#) objects

Array Members: Fixed number of 2 items.

Required: Yes

### Quantity

The number of origins in an origin group.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginGroups

Service: Amazon CloudFront

A complex data type for the origin groups specified for a distribution.

## Contents

### Quantity

The number of origin groups.

Type: Integer

Required: Yes

### Items

The items (origin groups) in a distribution.

Type: Array of [OriginGroup](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginRequestPolicy

Service: Amazon CloudFront

An origin request policy.

When it's attached to a cache behavior, the origin request policy determines the values that CloudFront includes in requests that it sends to the origin. Each request that CloudFront sends to the origin includes the following:

- The request body and the URL path (without the domain name) from the viewer request.
- The headers that CloudFront automatically includes in every origin request, including `Host`, `User-Agent`, and `X-Amz-Cf-Id`.
- All HTTP headers, cookies, and URL query strings that are specified in the cache policy or the origin request policy. These can include items from the viewer request and, in the case of headers, additional ones that are added by CloudFront.

CloudFront sends a request when it can't find an object in its cache that matches the request. If you want to send values to the origin and also include them in the cache key, use `CachePolicy`.

## Contents

### Id

The unique identifier for the origin request policy.

Type: String

Required: Yes

### LastModifiedTime

The date and time when the origin request policy was last modified.

Type: Timestamp

Required: Yes

### OriginRequestPolicyConfig

The origin request policy configuration.

Type: [OriginRequestPolicyConfig](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginRequestPolicyConfig

Service: Amazon CloudFront

An origin request policy configuration.

This configuration determines the values that CloudFront includes in requests that it sends to the origin. Each request that CloudFront sends to the origin includes the following:

- The request body and the URL path (without the domain name) from the viewer request.
- The headers that CloudFront automatically includes in every origin request, including `Host`, `User-Agent`, and `X-Amz-Cf-Id`.
- All HTTP headers, cookies, and URL query strings that are specified in the cache policy or the origin request policy. These can include items from the viewer request and, in the case of headers, additional ones that are added by CloudFront.

CloudFront sends a request when it can't find an object in its cache that matches the request. If you want to send values to the origin and also include them in the cache key, use `CachePolicy`.

## Contents

### CookiesConfig

The cookies from viewer requests to include in origin requests.

Type: [OriginRequestPolicyCookiesConfig](#) object

Required: Yes

### HeadersConfig

The HTTP headers to include in origin requests. These can include headers from viewer requests and additional headers added by CloudFront.

Type: [OriginRequestPolicyHeadersConfig](#) object

Required: Yes

### Name

A unique name to identify the origin request policy.

Type: String

Required: Yes

## QueryStringConfig

The URL query strings from viewer requests to include in origin requests.

Type: [OriginRequestPolicyQueryStringConfig](#) object

Required: Yes

## Comment

A comment to describe the origin request policy. The comment cannot be longer than 128 characters.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginRequestPolicyCookiesConfig

Service: Amazon CloudFront

An object that determines whether any cookies in viewer requests (and if so, which cookies) are included in requests that CloudFront sends to the origin.

## Contents

### CookieBehavior

Determines whether cookies in viewer requests are included in requests that CloudFront sends to the origin. Valid values are:

- `none` – No cookies in viewer requests are included in requests that CloudFront sends to the origin. Even when this field is set to `none`, any cookies that are listed in a `CachePolicy` *are* included in origin requests.
- `whitelist` – Only the cookies in viewer requests that are listed in the `CookieNames` type are included in requests that CloudFront sends to the origin.
- `all` – All cookies in viewer requests are included in requests that CloudFront sends to the origin.
- `allExcept` – All cookies in viewer requests are included in requests that CloudFront sends to the origin, *except* for those listed in the `CookieNames` type, which are not included.

Type: String

Valid Values: `none` | `whitelist` | `all` | `allExcept`

Required: Yes

### Cookies

Contains a list of cookie names.

Type: [CookieNames](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# OriginRequestPolicyHeadersConfig

Service: Amazon CloudFront

An object that determines whether any HTTP headers (and if so, which headers) are included in requests that CloudFront sends to the origin.

## Contents

### HeaderBehavior

Determines whether any HTTP headers are included in requests that CloudFront sends to the origin. Valid values are:

- `none` – No HTTP headers in viewer requests are included in requests that CloudFront sends to the origin. Even when this field is set to `none`, any headers that are listed in a `CachePolicy` *are* included in origin requests.
- `whitelist` – Only the HTTP headers that are listed in the `Headers` type are included in requests that CloudFront sends to the origin.
- `allViewer` – All HTTP headers in viewer requests are included in requests that CloudFront sends to the origin.
- `allViewerAndWhitelistCloudFront` – All HTTP headers in viewer requests and the additional CloudFront headers that are listed in the `Headers` type are included in requests that CloudFront sends to the origin. The additional headers are added by CloudFront.
- `allExcept` – All HTTP headers in viewer requests are included in requests that CloudFront sends to the origin, *except* for those listed in the `Headers` type, which are not included.

Type: String

Valid Values: `none` | `whitelist` | `allViewer` | `allViewerAndWhitelistCloudFront` | `allExcept`

Required: Yes

### Headers

Contains a list of HTTP header names.

Type: [Headers](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginRequestPolicyList

Service: Amazon CloudFront

A list of origin request policies.

## Contents

### MaxItems

The maximum number of origin request policies requested.

Type: Integer

Required: Yes

### Quantity

The total number of origin request policies returned in the response.

Type: Integer

Required: Yes

### Items

Contains the origin request policies in the list.

Type: Array of [OriginRequestPolicySummary](#) objects

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing origin request policies where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginRequestPolicyQueryStringConfig

Service: Amazon CloudFront

An object that determines whether any URL query strings in viewer requests (and if so, which query strings) are included in requests that CloudFront sends to the origin.

## Contents

### QueryStringBehavior

Determines whether any URL query strings in viewer requests are included in requests that CloudFront sends to the origin. Valid values are:

- `none` – No query strings in viewer requests are included in requests that CloudFront sends to the origin. Even when this field is set to `none`, any query strings that are listed in a `CachePolicy` *are* included in origin requests.
- `whitelist` – Only the query strings in viewer requests that are listed in the `QueryStringNames` type are included in requests that CloudFront sends to the origin.
- `all` – All query strings in viewer requests are included in requests that CloudFront sends to the origin.
- `allExcept` – All query strings in viewer requests are included in requests that CloudFront sends to the origin, ***except*** for those listed in the `QueryStringNames` type, which are not included.

Type: String

Valid Values: `none` | `whitelist` | `all` | `allExcept`

Required: Yes

### QueryStrings

Contains the specific query strings in viewer requests that either ***are*** or ***are not*** included in requests that CloudFront sends to the origin. The behavior depends on whether the `QueryStringBehavior` field in the `OriginRequestPolicyQueryStringConfig` type is set to `whitelist` (the listed query strings ***are*** included) or `allExcept` (the listed query strings ***are not*** included, but all other query strings are).

Type: [QueryStringNames](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginRequestPolicySummary

Service: Amazon CloudFront

Contains an origin request policy.

## Contents

### OriginRequestPolicy

The origin request policy.

Type: [OriginRequestPolicy](#) object

Required: Yes

### Type

The type of origin request policy, either managed (created by AWS) or custom (created in this AWS account).

Type: String

Valid Values: managed | custom

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Origins

Service: Amazon CloudFront

Contains information about the origins for this distribution.

## Contents

### Items

A list of origins.

Type: Array of [Origin](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### Quantity

The number of origins for this distribution.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# OriginShield

Service: Amazon CloudFront

CloudFront Origin Shield.

Using Origin Shield can help reduce the load on your origin. For more information, see [Using Origin Shield](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Enabled

A flag that specifies whether Origin Shield is enabled.

When it's enabled, CloudFront routes all requests through Origin Shield, which can help protect your origin. When it's disabled, CloudFront might send requests directly to your origin from multiple edge locations or regional edge caches.

Type: Boolean

Required: Yes

### OriginShieldRegion

The AWS Region for Origin Shield.

Specify the AWS Region that has the lowest latency to your origin. To specify a region, use the region code, not the region name. For example, specify the US East (Ohio) region as `us-east-2`.

When you enable CloudFront Origin Shield, you must specify the AWS Region for Origin Shield. For the list of AWS Regions that you can specify, and for help choosing the best Region for your origin, see [Choosing the AWS Region for Origin Shield](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `[a-z]{2}-[a-z]+\d`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OriginSslProtocols

Service: Amazon CloudFront

A complex type that contains information about the SSL/TLS protocols that CloudFront can use when establishing an HTTPS connection with your origin.

## Contents

### Items

A list that contains allowed SSL/TLS protocols for this distribution.

Type: Array of strings

Valid Values: SSLv3 | TLSv1 | TLSv1.1 | TLSv1.2

Required: Yes

### Quantity

The number of SSL/TLS protocols that you want to allow CloudFront to use when establishing an HTTPS connection with this origin.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ParametersInCacheKeyAndForwardedToOrigin

Service: Amazon CloudFront

This object determines the values that CloudFront includes in the cache key. These values can include HTTP headers, cookies, and URL query strings. CloudFront uses the cache key to find an object in its cache that it can return to the viewer.

The headers, cookies, and query strings that are included in the cache key are also included in requests that CloudFront sends to the origin. CloudFront sends a request when it can't find an object in its cache that matches the request's cache key. If you want to send values to the origin but *not* include them in the cache key, use `OriginRequestPolicy`.

## Contents

### CookiesConfig

An object that determines whether any cookies in viewer requests (and if so, which cookies) are included in the cache key and in requests that CloudFront sends to the origin.

Type: [CachePolicyCookiesConfig](#) object

Required: Yes

### EnableAcceptEncodingGzip

A flag that can affect whether the `Accept-Encoding` HTTP header is included in the cache key and included in requests that CloudFront sends to the origin.

This field is related to the `EnableAcceptEncodingBrotli` field. If one or both of these fields is `true` *and* the viewer request includes the `Accept-Encoding` header, then CloudFront does the following:

- Normalizes the value of the viewer's `Accept-Encoding` header
- Includes the normalized header in the cache key
- Includes the normalized header in the request to the origin, if a request is necessary

For more information, see [Compression support](#) in the *Amazon CloudFront Developer Guide*.

If you set this value to `true`, and this cache behavior also has an origin request policy attached, do not include the `Accept-Encoding` header in the origin request policy. CloudFront always includes the `Accept-Encoding` header in origin requests when the value of this field is `true`, so including this header in an origin request policy has no effect.

If both of these fields are `false`, then CloudFront treats the `Accept-Encoding` header the same as any other HTTP header in the viewer request. By default, it's not included in the cache key and it's not included in origin requests. In this case, you can manually add `Accept-Encoding` to the headers whitelist like any other HTTP header.

Type: Boolean

Required: Yes

### HeadersConfig

An object that determines whether any HTTP headers (and if so, which headers) are included in the cache key and in requests that CloudFront sends to the origin.

Type: [CachePolicyHeadersConfig](#) object

Required: Yes

### QueryStringConfig

An object that determines whether any URL query strings in viewer requests (and if so, which query strings) are included in the cache key and in requests that CloudFront sends to the origin.

Type: [CachePolicyQueryStringConfig](#) object

Required: Yes

### EnableAcceptEncodingBrotli

A flag that can affect whether the `Accept-Encoding` HTTP header is included in the cache key and included in requests that CloudFront sends to the origin.

This field is related to the `EnableAcceptEncodingGzip` field. If one or both of these fields is `true` *and* the viewer request includes the `Accept-Encoding` header, then CloudFront does the following:

- Normalizes the value of the viewer's `Accept-Encoding` header
- Includes the normalized header in the cache key
- Includes the normalized header in the request to the origin, if a request is necessary

For more information, see [Compression support](#) in the *Amazon CloudFront Developer Guide*.

If you set this value to `true`, and this cache behavior also has an origin request policy attached, do not include the `Accept-Encoding` header in the origin request policy. CloudFront always

includes the `Accept-Encoding` header in origin requests when the value of this field is `true`, so including this header in an origin request policy has no effect.

If both of these fields are `false`, then CloudFront treats the `Accept-Encoding` header the same as any other HTTP header in the viewer request. By default, it's not included in the cache key and it's not included in origin requests. In this case, you can manually add `Accept-Encoding` to the headers whitelist like any other HTTP header.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Paths

Service: Amazon CloudFront

A complex type that contains information about the objects that you want to invalidate. For more information, see [Specifying the Objects to Invalidate](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Quantity

The number of invalidation paths specified for the objects that you want to invalidate.

Type: Integer

Required: Yes

### Items

A complex type that contains a list of the paths that you want to invalidate.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PublicKey

Service: Amazon CloudFront

A public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

## Contents

### CreatedTime

The date and time when the public key was uploaded.

Type: Timestamp

Required: Yes

### Id

The identifier of the public key.

Type: String

Required: Yes

### PublicKeyConfig

Configuration information about a public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: [PublicKeyConfig](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# PublicKeyConfig

Service: Amazon CloudFront

Configuration information about a public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

## Contents

### CallerReference

A string included in the request to help make sure that the request can't be replayed.

Type: String

Required: Yes

### EncodedKey

The public key that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

Type: String

Required: Yes

### Name

A name to help identify the public key.

Type: String

Required: Yes

### Comment

A comment to describe the public key. The comment cannot be longer than 128 characters.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PublicKeyList

Service: Amazon CloudFront

A list of public keys that you can use with [signed URLs and signed cookies](#), or with [field-level encryption](#).

## Contents

### MaxItems

The maximum number of public keys you want in the response.

Type: Integer

Required: Yes

### Quantity

The number of public keys in the list.

Type: Integer

Required: Yes

### Items

A list of public keys.

Type: Array of [PublicKeySummary](#) objects

Required: No

### NextMarker

If there are more elements to be listed, this element is present and contains the value that you can use for the `Marker` request parameter to continue listing your public keys where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PublicKeySummary

Service: Amazon CloudFront

Contains information about a public key.

## Contents

### CreatedTime

The date and time when the public key was uploaded.

Type: Timestamp

Required: Yes

### EncodedKey

The public key.

Type: String

Required: Yes

### Id

The identifier of the public key.

Type: String

Required: Yes

### Name

A name to help identify the public key.

Type: String

Required: Yes

### Comment

A comment to describe the public key. The comment cannot be longer than 128 characters.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# QueryArgProfile

Service: Amazon CloudFront

Query argument-profile mapping for field-level encryption.

## Contents

### ProfileId

ID of profile to use for field-level encryption query argument-profile mapping

Type: String

Required: Yes

### QueryArg

Query argument for field-level encryption query argument-profile mapping.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# QueryArgProfileConfig

Service: Amazon CloudFront

Configuration for query argument-profile mapping for field-level encryption.

## Contents

### ForwardWhenQueryArgProfileIsUnknown

Flag to set if you want a request to be forwarded to the origin even if the profile specified by the field-level encryption query argument, fle-profile, is unknown.

Type: Boolean

Required: Yes

### QueryArgProfiles

Profiles specified for query argument-profile mapping for field-level encryption.

Type: [QueryArgProfiles](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# QueryArgProfiles

Service: Amazon CloudFront

Query argument-profile mapping for field-level encryption.

## Contents

### Quantity

Number of profiles for query argument-profile mapping for field-level encryption.

Type: Integer

Required: Yes

### Items

Number of items for query argument-profile mapping for field-level encryption.

Type: Array of [QueryArgProfile](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# QueryStringCacheKeys

Service: Amazon CloudFront

This field is deprecated. We recommend that you use a cache policy or an origin request policy instead of this field.

If you want to include query strings in the cache key, use `QueryStringsConfig` in a cache policy. See `CachePolicy`.

If you want to send query strings to the origin but not include them in the cache key, use `QueryStringsConfig` in an origin request policy. See `OriginRequestPolicy`.

A complex type that contains information about the query string parameters that you want CloudFront to use for caching for a cache behavior.

## Contents

### Quantity

The number of whitelisted query string parameters for a cache behavior.

Type: Integer

Required: Yes

### Items

A list that contains the query string parameters that you want CloudFront to use as a basis for caching for a cache behavior. If `Quantity` is 0, you can omit `Items`.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# QueryStringNames

Service: Amazon CloudFront

Contains a list of query string names.

## Contents

### Quantity

The number of query string names in the `Items` list.

Type: Integer

Required: Yes

### Items

A list of query string names.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RealtimeLogConfig

Service: Amazon CloudFront

A real-time log configuration.

## Contents

### ARN

The Amazon Resource Name (ARN) of this real-time log configuration.

Type: String

Required: Yes

### Endpoints

Contains information about the Amazon Kinesis data stream where you are sending real-time log data for this real-time log configuration.

Type: Array of [EndPoint](#) objects

Required: Yes

### Fields

A list of fields that are included in each real-time log record. In an API response, the fields are provided in the same order in which they are sent to the Amazon Kinesis data stream.

For more information about fields, see [Real-time log configuration fields](#) in the *Amazon CloudFront Developer Guide*.

Type: Array of strings

Required: Yes

### Name

The unique name of this real-time log configuration.

Type: String

Required: Yes

## SamplingRate

The sampling rate for this real-time log configuration. The sampling rate determines the percentage of viewer requests that are represented in the real-time log data. The sampling rate is an integer between 1 and 100, inclusive.

Type: Long

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RealtimeLogConfigs

Service: Amazon CloudFront

A list of real-time log configurations.

## Contents

### IsTruncated

A flag that indicates whether there are more real-time log configurations than are contained in this list.

Type: Boolean

Required: Yes

### Marker

This parameter indicates where this list of real-time log configurations begins. This list includes real-time log configurations that occur after the marker.

Type: String

Required: Yes

### MaxItems

The maximum number of real-time log configurations requested.

Type: Integer

Required: Yes

### Items

Contains the list of real-time log configurations.

Type: Array of [RealtimeLogConfig](#) objects

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing real-time log configurations where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# RealtimeMetricsSubscriptionConfig

Service: Amazon CloudFront

A subscription configuration for additional CloudWatch metrics.

## Contents

### RealtimeMetricsSubscriptionStatus

A flag that indicates whether additional CloudWatch metrics are enabled for a given CloudFront distribution.

Type: String

Valid Values: Enabled | Disabled

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicy

Service: Amazon CloudFront

A response headers policy.

A response headers policy contains information about a set of HTTP response headers.

After you create a response headers policy, you can use its ID to attach it to one or more cache behaviors in a CloudFront distribution. When it's attached to a cache behavior, the response headers policy affects the HTTP headers that CloudFront includes in HTTP responses to requests that match the cache behavior. CloudFront adds or removes response headers according to the configuration of the response headers policy.

For more information, see [Adding or removing HTTP headers in CloudFront responses](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Id

The identifier for the response headers policy.

Type: String

Required: Yes

### LastModifiedTime

The date and time when the response headers policy was last modified.

Type: Timestamp

Required: Yes

### ResponseHeadersPolicyConfig

A response headers policy configuration.

Type: [ResponseHeadersPolicyConfig](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyAccessControlAllowHeaders

Service: Amazon CloudFront

A list of HTTP header names that CloudFront includes as values for the `Access-Control-Allow-Headers` HTTP response header.

For more information about the `Access-Control-Allow-Headers` HTTP response header, see [Access-Control-Allow-Headers](#) in the MDN Web Docs.

## Contents

### Items

The list of HTTP header names. You can specify `*` to allow all headers.

Type: Array of strings

Required: Yes

### Quantity

The number of HTTP header names in the list.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyAccessControlAllowMethods

Service: Amazon CloudFront

A list of HTTP methods that CloudFront includes as values for the `Access-Control-Allow-Methods` HTTP response header.

For more information about the `Access-Control-Allow-Methods` HTTP response header, see [Access-Control-Allow-Methods](#) in the MDN Web Docs.

## Contents

### Items

The list of HTTP methods. Valid values are:

- GET
- DELETE
- HEAD
- OPTIONS
- PATCH
- POST
- PUT
- ALL

ALL is a special value that includes all of the listed HTTP methods.

Type: Array of strings

Valid Values: GET | POST | OPTIONS | PUT | DELETE | PATCH | HEAD | ALL

Required: Yes

### Quantity

The number of HTTP methods in the list.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyAccessControlAllowOrigins

Service: Amazon CloudFront

A list of origins (domain names) that CloudFront can use as the value for the `Access-Control-Allow-Origin` HTTP response header.

For more information about the `Access-Control-Allow-Origin` HTTP response header, see [Access-Control-Allow-Origin](#) in the MDN Web Docs.

## Contents

### Items

The list of origins (domain names). You can specify `*` to allow all origins.

Type: Array of strings

Required: Yes

### Quantity

The number of origins in the list.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyAccessControlExposeHeaders

Service: Amazon CloudFront

A list of HTTP headers that CloudFront includes as values for the Access-Control-Expose-Headers HTTP response header.

For more information about the Access-Control-Expose-Headers HTTP response header, see [Access-Control-Expose-Headers](#) in the MDN Web Docs.

## Contents

### Quantity

The number of HTTP headers in the list.

Type: Integer

Required: Yes

### Items

The list of HTTP headers. You can specify \* to expose all headers.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ResponseHeadersPolicyConfig

Service: Amazon CloudFront

A response headers policy configuration.

A response headers policy configuration contains metadata about the response headers policy, and configurations for sets of HTTP response headers.

## Contents

### Name

A name to identify the response headers policy.

The name must be unique for response headers policies in this AWS account.

Type: String

Required: Yes

### Comment

A comment to describe the response headers policy.

The comment cannot be longer than 128 characters.

Type: String

Required: No

### CorsConfig

A configuration for a set of HTTP response headers that are used for cross-origin resource sharing (CORS).

Type: [ResponseHeadersPolicyCorsConfig](#) object

Required: No

### CustomHeadersConfig

A configuration for a set of custom HTTP response headers.

Type: [ResponseHeadersPolicyCustomHeadersConfig](#) object

Required: No

### **RemoveHeadersConfig**

A configuration for a set of HTTP headers to remove from the HTTP response.

Type: [ResponseHeadersPolicyRemoveHeadersConfig](#) object

Required: No

### **SecurityHeadersConfig**

A configuration for a set of security-related HTTP response headers.

Type: [ResponseHeadersPolicySecurityHeadersConfig](#) object

Required: No

### **ServerTimingHeadersConfig**

A configuration for enabling the Server-Timing header in HTTP responses sent from CloudFront.

Type: [ResponseHeadersPolicyServerTimingHeadersConfig](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyContentSecurityPolicy

Service: Amazon CloudFront

The policy directives and their values that CloudFront includes as values for the Content-Security-Policy HTTP response header.

For more information about the Content-Security-Policy HTTP response header, see [Content-Security-Policy](#) in the MDN Web Docs.

## Contents

### ContentSecurityPolicy

The policy directives and their values that CloudFront includes as values for the Content-Security-Policy HTTP response header.

Type: String

Required: Yes

### Override

A Boolean that determines whether CloudFront overrides the Content-Security-Policy HTTP response header received from the origin with the one specified in this response headers policy.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyContentTypeOptions

Service: Amazon CloudFront

Determines whether CloudFront includes the `X-Content-Type-Options` HTTP response header with its value set to `nosniff`.

For more information about the `X-Content-Type-Options` HTTP response header, see [X-Content-Type-Options](#) in the MDN Web Docs.

## Contents

### Override

A Boolean that determines whether CloudFront overrides the `X-Content-Type-Options` HTTP response header received from the origin with the one specified in this response headers policy.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyCorsConfig

Service: Amazon CloudFront

A configuration for a set of HTTP response headers that are used for cross-origin resource sharing (CORS). CloudFront adds these headers to HTTP responses that it sends for CORS requests that match a cache behavior associated with this response headers policy.

For more information about CORS, see [Cross-Origin Resource Sharing \(CORS\)](#) in the MDN Web Docs.

## Contents

### AccessControlAllowCredentials

A Boolean that CloudFront uses as the value for the `Access-Control-Allow-Credentials` HTTP response header.

For more information about the `Access-Control-Allow-Credentials` HTTP response header, see [Access-Control-Allow-Credentials](#) in the MDN Web Docs.

Type: Boolean

Required: Yes

### AccessControlAllowHeaders

A list of HTTP header names that CloudFront includes as values for the `Access-Control-Allow-Headers` HTTP response header.

For more information about the `Access-Control-Allow-Headers` HTTP response header, see [Access-Control-Allow-Headers](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyAccessControlAllowHeaders](#) object

Required: Yes

### AccessControlAllowMethods

A list of HTTP methods that CloudFront includes as values for the `Access-Control-Allow-Methods` HTTP response header.

For more information about the `Access-Control-Allow-Methods` HTTP response header, see [Access-Control-Allow-Methods](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyAccessControlAllowMethods](#) object

Required: Yes

### **AccessControlAllowOrigins**

A list of origins (domain names) that CloudFront can use as the value for the `Access-Control-Allow-Origin` HTTP response header.

For more information about the `Access-Control-Allow-Origin` HTTP response header, see [Access-Control-Allow-Origin](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyAccessControlAllowOrigins](#) object

Required: Yes

### **OriginOverride**

A Boolean that determines whether CloudFront overrides HTTP response headers received from the origin with the ones specified in this response headers policy.

Type: Boolean

Required: Yes

### **AccessControlExposeHeaders**

A list of HTTP headers that CloudFront includes as values for the `Access-Control-Expose-Headers` HTTP response header.

For more information about the `Access-Control-Expose-Headers` HTTP response header, see [Access-Control-Expose-Headers](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyAccessControlExposeHeaders](#) object

Required: No

### **AccessControlMaxAgeSec**

A number that CloudFront uses as the value for the `Access-Control-Max-Age` HTTP response header.

For more information about the `Access-Control-Max-Age` HTTP response header, see [Access-Control-Max-Age](#) in the MDN Web Docs.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyCustomHeader

Service: Amazon CloudFront

An HTTP response header name and its value. CloudFront includes this header in HTTP responses that it sends for requests that match a cache behavior that's associated with this response headers policy.

## Contents

### Header

The HTTP response header name.

Type: String

Required: Yes

### Override

A Boolean that determines whether CloudFront overrides a response header with the same name received from the origin with the header specified here.

Type: Boolean

Required: Yes

### Value

The value for the HTTP response header.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)





# ResponseHeadersPolicyCustomHeadersConfig

Service: Amazon CloudFront

A list of HTTP response header names and their values. CloudFront includes these headers in HTTP responses that it sends for requests that match a cache behavior that's associated with this response headers policy.

## Contents

### Quantity

The number of HTTP response headers in the list.

Type: Integer

Required: Yes

### Items

The list of HTTP response headers and their values.

Type: Array of [ResponseHeadersPolicyCustomHeader](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyFrameOptions

Service: Amazon CloudFront

Determines whether CloudFront includes the X-Frame-Options HTTP response header and the header's value.

For more information about the X-Frame-Options HTTP response header, see [X-Frame-Options](#) in the MDN Web Docs.

## Contents

### FrameOption

The value of the X-Frame-Options HTTP response header. Valid values are DENY and SAMEORIGIN.

For more information about these values, see [X-Frame-Options](#) in the MDN Web Docs.

Type: String

Valid Values: DENY | SAMEORIGIN

Required: Yes

### Override

A Boolean that determines whether CloudFront overrides the X-Frame-Options HTTP response header received from the origin with the one specified in this response headers policy.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ResponseHeadersPolicyList

Service: Amazon CloudFront

A list of response headers policies.

## Contents

### MaxItems

The maximum number of response headers policies requested.

Type: Integer

Required: Yes

### Quantity

The number of response headers policies returned.

Type: Integer

Required: Yes

### Items

The response headers policies in the list.

Type: Array of [ResponseHeadersPolicySummary](#) objects

Required: No

### NextMarker

If there are more items in the list than are in this response, this element is present. It contains the value that you should use in the `Marker` field of a subsequent request to continue listing response headers policies where you left off.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyReferrerPolicy

Service: Amazon CloudFront

Determines whether CloudFront includes the `Referrer-Policy` HTTP response header and the header's value.

For more information about the `Referrer-Policy` HTTP response header, see [Referrer-Policy](#) in the MDN Web Docs.

## Contents

### Override

A Boolean that determines whether CloudFront overrides the `Referrer-Policy` HTTP response header received from the origin with the one specified in this response headers policy.

Type: Boolean

Required: Yes

### ReferrerPolicy

The value of the `Referrer-Policy` HTTP response header. Valid values are:

- `no-referrer`
- `no-referrer-when-downgrade`
- `origin`
- `origin-when-cross-origin`
- `same-origin`
- `strict-origin`
- `strict-origin-when-cross-origin`
- `unsafe-url`

For more information about these values, see [Referrer-Policy](#) in the MDN Web Docs.

Type: String

Valid Values: `no-referrer` | `no-referrer-when-downgrade` | `origin` | `origin-when-cross-origin` | `same-origin` | `strict-origin` | `strict-origin-when-cross-origin` | `unsafe-url`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ResponseHeadersPolicyRemoveHeader

Service: Amazon CloudFront

The name of an HTTP header that CloudFront removes from HTTP responses to requests that match the cache behavior that this response headers policy is attached to.

## Contents

### Header

The HTTP header name.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyRemoveHeadersConfig

Service: Amazon CloudFront

A list of HTTP header names that CloudFront removes from HTTP responses to requests that match the cache behavior that this response headers policy is attached to.

## Contents

### Quantity

The number of HTTP header names in the list.

Type: Integer

Required: Yes

### Items

The list of HTTP header names.

Type: Array of [ResponseHeadersPolicyRemoveHeader](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicySecurityHeadersConfig

Service: Amazon CloudFront

A configuration for a set of security-related HTTP response headers. CloudFront adds these headers to HTTP responses that it sends for requests that match a cache behavior associated with this response headers policy.

## Contents

### ContentSecurityPolicy

The policy directives and their values that CloudFront includes as values for the Content-Security-Policy HTTP response header.

For more information about the Content-Security-Policy HTTP response header, see [Content-Security-Policy](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyContentSecurityPolicy](#) object

Required: No

### ContentTypeOptions

Determines whether CloudFront includes the X-Content-Type-Options HTTP response header with its value set to `nosniff`.

For more information about the X-Content-Type-Options HTTP response header, see [X-Content-Type-Options](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyContentTypeOptions](#) object

Required: No

### FrameOptions

Determines whether CloudFront includes the X-Frame-Options HTTP response header and the header's value.

For more information about the X-Frame-Options HTTP response header, see [X-Frame-Options](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyFrameOptions](#) object

Required: No

## ReferrerPolicy

Determines whether CloudFront includes the `Referrer-Policy` HTTP response header and the header's value.

For more information about the `Referrer-Policy` HTTP response header, see [Referrer-Policy](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyReferrerPolicy](#) object

Required: No

## StrictTransportSecurity

Determines whether CloudFront includes the `Strict-Transport-Security` HTTP response header and the header's value.

For more information about the `Strict-Transport-Security` HTTP response header, see [Security headers](#) in the *Amazon CloudFront Developer Guide* and [Strict-Transport-Security](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyStrictTransportSecurity](#) object

Required: No

## XSSProtection

Determines whether CloudFront includes the `X-XSS-Protection` HTTP response header and the header's value.

For more information about the `X-XSS-Protection` HTTP response header, see [X-XSS-Protection](#) in the MDN Web Docs.

Type: [ResponseHeadersPolicyXSSProtection](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyServerTimingHeadersConfig

Service: Amazon CloudFront

A configuration for enabling the `Server-Timing` header in HTTP responses sent from CloudFront. CloudFront adds this header to HTTP responses that it sends in response to requests that match a cache behavior that's associated with this response headers policy.

You can use the `Server-Timing` header to view metrics that can help you gain insights about the behavior and performance of CloudFront. For example, you can see which cache layer served a cache hit, or the first byte latency from the origin when there was a cache miss. You can use the metrics in the `Server-Timing` header to troubleshoot issues or test the efficiency of your CloudFront configuration. For more information, see [Server-Timing header](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### Enabled

A Boolean that determines whether CloudFront adds the `Server-Timing` header to HTTP responses that it sends in response to requests that match a cache behavior that's associated with this response headers policy.

Type: Boolean

Required: Yes

### SamplingRate

A number 0–100 (inclusive) that specifies the percentage of responses that you want CloudFront to add the `Server-Timing` header to. When you set the sampling rate to 100, CloudFront adds the `Server-Timing` header to the HTTP response for every request that matches the cache behavior that this response headers policy is attached to. When you set it to 50, CloudFront adds the header to 50% of the responses for requests that match the cache behavior. You can set the sampling rate to any number 0–100 with up to four decimal places.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 100.0.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyStrictTransportSecurity

Service: Amazon CloudFront

Determines whether CloudFront includes the `Strict-Transport-Security` HTTP response header and the header's value.

For more information about the `Strict-Transport-Security` HTTP response header, see [Strict-Transport-Security](#) in the MDN Web Docs.

## Contents

### AccessControlMaxAgeSec

A number that CloudFront uses as the value for the `max-age` directive in the `Strict-Transport-Security` HTTP response header.

Type: Integer

Required: Yes

### Override

A Boolean that determines whether CloudFront overrides the `Strict-Transport-Security` HTTP response header received from the origin with the one specified in this response headers policy.

Type: Boolean

Required: Yes

### IncludeSubdomains

A Boolean that determines whether CloudFront includes the `includeSubDomains` directive in the `Strict-Transport-Security` HTTP response header.

Type: Boolean

Required: No

### Preload

A Boolean that determines whether CloudFront includes the `preload` directive in the `Strict-Transport-Security` HTTP response header.



Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicySummary

Service: Amazon CloudFront

Contains a response headers policy.

## Contents

### ResponseHeadersPolicy

The response headers policy.

Type: [ResponseHeadersPolicy](#) object

Required: Yes

### Type

The type of response headers policy, either managed (created by AWS) or custom (created in this AWS account).

Type: String

Valid Values: managed | custom

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResponseHeadersPolicyXSSProtection

Service: Amazon CloudFront

Determines whether CloudFront includes the `X-XSS-Protection` HTTP response header and the header's value.

For more information about the `X-XSS-Protection` HTTP response header, see [X-XSS-Protection](#) in the MDN Web Docs.

## Contents

### Override

A Boolean that determines whether CloudFront overrides the `X-XSS-Protection` HTTP response header received from the origin with the one specified in this response headers policy.

Type: Boolean

Required: Yes

### Protection

A Boolean that determines the value of the `X-XSS-Protection` HTTP response header. When this setting is `true`, the value of the `X-XSS-Protection` header is `1`. When this setting is `false`, the value of the `X-XSS-Protection` header is `0`.

For more information about these settings, see [X-XSS-Protection](#) in the MDN Web Docs.

Type: Boolean

Required: Yes

### ModeBlock

A Boolean that determines whether CloudFront includes the `mode=block` directive in the `X-XSS-Protection` header.

For more information about this directive, see [X-XSS-Protection](#) in the MDN Web Docs.

Type: Boolean

Required: No

## ReportUri

A reporting URI, which CloudFront uses as the value of the `report` directive in the `X-XSS-Protection` header.

You cannot specify a `ReportUri` when `ModeBlock` is `true`.

For more information about using a reporting URL, see [X-XSS-Protection](#) in the MDN Web Docs.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Restrictions

Service: Amazon CloudFront

A complex type that identifies ways in which you want to restrict distribution of your content.

## Contents

### GeoRestriction

A complex type that controls the countries in which your content is distributed. CloudFront determines the location of your users using MaxMind GeoIP databases.

Type: [GeoRestriction](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## S3Origin

Service: Amazon CloudFront

A complex type that contains information about the Amazon S3 bucket from which you want CloudFront to get your media files for distribution.

### Contents

#### DomainName

The DNS name of the Amazon S3 origin.

Type: String

Required: Yes

#### OriginAccessIdentity

The CloudFront origin access identity to associate with the distribution. Use an origin access identity to configure the distribution so that end users can only access objects in an Amazon S3 bucket through CloudFront.

If you want end users to be able to access objects using either the CloudFront URL or the Amazon S3 URL, specify an empty `OriginAccessIdentity` element.

To delete the origin access identity from an existing distribution, update the distribution configuration and include an empty `OriginAccessIdentity` element.

To replace the origin access identity, update the distribution configuration and specify the new origin access identity.

For more information, see [Using an Origin Access Identity to Restrict Access to Your Amazon S3 Content](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: Yes

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)


## S3OriginConfig

Service: Amazon CloudFront

A complex type that contains information about the Amazon S3 origin. If the origin is a custom origin or an S3 bucket that is configured as a website endpoint, use the `CustomOriginConfig` element instead.

### Contents

#### OriginAccessIdentity

 **Note**

If you're using origin access control (OAC) instead of origin access identity, specify an empty `OriginAccessIdentity` element. For more information, see [Restricting access to an AWS](#) in the *Amazon CloudFront Developer Guide*.

The CloudFront origin access identity to associate with the origin. Use an origin access identity to configure the origin so that viewers can *only* access objects in an Amazon S3 bucket through CloudFront. The format of the value is:

```
origin-access-identity/cloudfront/ID-of-origin-access-identity
```

The *ID-of-origin-access-identity* is the value that CloudFront returned in the `ID` element when you created the origin access identity.

If you want viewers to be able to access objects using either the CloudFront URL or the Amazon S3 URL, specify an empty `OriginAccessIdentity` element.

To delete the origin access identity from an existing distribution, update the distribution configuration and include an empty `OriginAccessIdentity` element.

To replace the origin access identity, update the distribution configuration and specify the new origin access identity.

For more information about the origin access identity, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: String



Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SessionStickinessConfig

Service: Amazon CloudFront

Session stickiness provides the ability to define multiple requests from a single viewer as a single session. This prevents the potentially inconsistent experience of sending some of a given user's requests to your staging distribution, while others are sent to your primary distribution. Define the session duration using TTL values.

## Contents

### IdleTTL

The amount of time after which you want sessions to cease if no requests are received. Allowed values are 300–3600 seconds (5–60 minutes).

The value must be less than or equal to `MaximumTTL`.

Type: Integer

Required: Yes

### MaximumTTL

The maximum amount of time to consider requests from the viewer as being part of the same session. Allowed values are 300–3600 seconds (5–60 minutes).

The value must be greater than or equal to `IdleTTL`.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# Signer

Service: Amazon CloudFront

A list of AWS accounts and the active CloudFront key pairs in each account that CloudFront can use to verify the signatures of signed URLs and signed cookies.

## Contents

### AwsAccountNumber

An AWS account number that contains active CloudFront key pairs that CloudFront can use to verify the signatures of signed URLs and signed cookies. If the AWS account that owns the key pairs is the same account that owns the CloudFront distribution, the value of this field is `self`.

Type: String

Required: No

### KeyPairIds

A list of CloudFront key pair identifiers.

Type: [KeyPairIds](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StagingDistributionDnsNames

Service: Amazon CloudFront

The CloudFront domain name of the staging distribution.

## Contents

### Quantity

The number of CloudFront domain names in your staging distribution.

Type: Integer

Required: Yes

### Items

The CloudFront domain name of the staging distribution.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StatusCodes

Service: Amazon CloudFront

A complex data type for the status codes that you specify that, when returned by a primary origin, trigger CloudFront to failover to a second origin.

## Contents

### Items

The items (status codes) for an origin group.

Type: Array of integers

Array Members: Minimum number of 1 item.

Required: Yes

### Quantity

The number of status codes.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StreamingDistribution

Service: Amazon CloudFront

A streaming distribution tells CloudFront where you want RTMP content to be delivered from, and the details about how to track and manage content delivery.

## Contents

### ActiveTrustedSigners

A complex type that lists the AWS accounts, if any, that you included in the `TrustedSigners` complex type for this distribution. These are the accounts that you want to allow to create signed URLs for private content.

The `Signer` complex type lists the AWS account number of the trusted signer or `self` if the signer is the AWS account that created the distribution. The `Signer` element also includes the IDs of any active CloudFront key pairs that are associated with the trusted signer's AWS account. If no `KeyPairId` element appears for a `Signer`, that signer can't create signed URLs.

For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [ActiveTrustedSigners](#) object

Required: Yes

### ARN

The ARN (Amazon Resource Name) for the distribution. For example: `arn:aws:cloudfront::123456789012:distribution/EDFDVBD632BHDS5`, where `123456789012` is your AWS account ID.

Type: String

Required: Yes

### DomainName

The domain name that corresponds to the streaming distribution, for example, `s5c39gqb8ow64r.cloudfront.net`.

Type: String

Required: Yes

## Id

The identifier for the RTMP distribution. For example: EGTXBD79EXAMPLE.

Type: String

Required: Yes

## Status

The current status of the RTMP distribution. When the status is `Deployed`, the distribution's information is propagated to all CloudFront edge locations.

Type: String

Required: Yes

## StreamingDistributionConfig

The current configuration information for the RTMP distribution.

Type: [StreamingDistributionConfig](#) object

Required: Yes

## LastModifiedTime

The date and time that the distribution was last modified.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# StreamingDistributionConfig

Service: Amazon CloudFront

The RTMP distribution's configuration information.

## Contents

### CallerReference

A unique value (for example, a date-time stamp) that ensures that the request can't be replayed.

If the value of `CallerReference` is new (regardless of the content of the `StreamingDistributionConfig` object), CloudFront creates a new distribution.

If `CallerReference` is a value that you already sent in a previous request to create a distribution, CloudFront returns a `DistributionAlreadyExists` error.

Type: String

Required: Yes

### Comment

Any comments you want to include about the streaming distribution.

Type: String

Required: Yes

### Enabled

Whether the streaming distribution is enabled to accept user requests for content.

Type: Boolean

Required: Yes

### S3Origin

A complex type that contains information about the Amazon S3 bucket from which you want CloudFront to get your media files for distribution.

Type: [S3Origin](#) object

Required: Yes

### TrustedSigners

A complex type that specifies any AWS accounts that you want to permit to create signed URLs for private content. If you want the distribution to use signed URLs, include this element; if you want the distribution to use public URLs, remove this element. For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

Required: Yes

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this streaming distribution.

Type: [Aliases](#) object

Required: No

### Logging

A complex type that controls whether access logs are written for the streaming distribution.

Type: [StreamingLoggingConfig](#) object

Required: No

### PriceClass

A complex type that contains information about price class for this streaming distribution.

Type: String

Valid Values: PriceClass\_100 | PriceClass\_200 | PriceClass\_All

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StreamingDistributionConfigWithTags

Service: Amazon CloudFront

A streaming distribution Configuration and a list of tags to be associated with the streaming distribution.

## Contents

### StreamingDistributionConfig

A streaming distribution Configuration.

Type: [StreamingDistributionConfig](#) object

Required: Yes

### Tags

A complex type that contains zero or more Tag elements.

Type: [Tags](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StreamingDistributionList

Service: Amazon CloudFront

A streaming distribution list.

## Contents

### IsTruncated

A flag that indicates whether more streaming distributions remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more distributions in the list.

Type: Boolean

Required: Yes

### Marker

The value you provided for the `Marker` request parameter.

Type: String

Required: Yes

### MaxItems

The value you provided for the `MaxItems` request parameter.

Type: Integer

Required: Yes

### Quantity

The number of streaming distributions that were created by the current AWS account.

Type: Integer

Required: Yes

### Items

A complex type that contains one `StreamingDistributionSummary` element for each distribution that was created by the current AWS account.

Type: Array of [StreamingDistributionSummary](#) objects

Required: No

### NextMarker

If `IsTruncated` is `true`, this element is present and contains the value you can use for the `Marker` request parameter to continue listing your RTMP distributions where they left off.

Type: String

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StreamingDistributionSummary

Service: Amazon CloudFront

A summary of the information for a CloudFront streaming distribution.

## Contents

### Aliases

A complex type that contains information about CNAMEs (alternate domain names), if any, for this streaming distribution.

Type: [Aliases](#) object

Required: Yes

### ARN

The ARN (Amazon Resource Name) for the streaming distribution. For example: `arn:aws:cloudfront::123456789012:streaming-distribution/EDFDVBD632BHDS5`, where `123456789012` is your AWS account ID.

Type: String

Required: Yes

### Comment

The comment originally specified when this distribution was created.

Type: String

Required: Yes

### DomainName

The domain name corresponding to the distribution, for example, `d1111111abcdef8.cloudfront.net`.

Type: String

Required: Yes

### Enabled

Whether the distribution is enabled to accept end user requests for content.

Type: Boolean

Required: Yes

## Id

The identifier for the distribution, for example, EDFDVBD632BHDS5.

Type: String

Required: Yes

## LastModifiedTime

The date and time the distribution was last modified.

Type: Timestamp

Required: Yes

## PriceClass

A complex type that contains information about price class for this streaming distribution.

Type: String

Valid Values: `PriceClass_100` | `PriceClass_200` | `PriceClass_All`

Required: Yes

## S3Origin

A complex type that contains information about the Amazon S3 bucket from which you want CloudFront to get your media files for distribution.

Type: [S3Origin](#) object

Required: Yes

## Status

Indicates the current status of the distribution. When the status is `Deployed`, the distribution's information is fully propagated throughout the Amazon CloudFront system.

Type: String

Required: Yes



## TrustedSigners

A complex type that specifies the AWS accounts, if any, that you want to allow to create signed URLs for private content. If you want to require signed URLs in requests for objects in the target origin that match the PathPattern for this cache behavior, specify `true` for `Enabled`, and specify the applicable values for `Quantity` and `Items`. If you don't want to require signed URLs in requests for objects that match PathPattern, specify `false` for `Enabled` and `0` for `Quantity`. Omit `Items`. To add, change, or remove one or more trusted signers, change `Enabled` to `true` (if it's currently `false`), change `Quantity` as applicable, and specify all of the trusted signers that you want to include in the updated distribution.

For more information, see [Serving Private Content through CloudFront](#) in the *Amazon CloudFront Developer Guide*.

Type: [TrustedSigners](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StreamingLoggingConfig

Service: Amazon CloudFront

A complex type that controls whether access logs are written for this streaming distribution.

## Contents

### Bucket

The Amazon S3 bucket to store the access logs in, for example, `amzn-s3-demo-bucket.s3.amazonaws.com`.

Type: String

Required: Yes

### Enabled

Specifies whether you want CloudFront to save access logs to an Amazon S3 bucket. If you don't want to enable logging when you create a streaming distribution or if you want to disable logging for an existing streaming distribution, specify `false` for `Enabled`, and specify empty `Bucket` and `Prefix` elements. If you specify `false` for `Enabled` but you specify values for `Bucket` and `Prefix`, the values are automatically deleted.

Type: Boolean

Required: Yes

### Prefix

An optional string that you want CloudFront to prefix to the access log filenames for this streaming distribution, for example, `myprefix/`. If you want to enable logging, but you don't want to specify a prefix, you still must include an empty `Prefix` element in the `Logging` element.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Tag

Service: Amazon CloudFront

A complex type that contains Tag key and Tag value.

## Contents

### Key

A string that contains Tag key.

The string length should be between 1 and 128 characters. Valid characters include a-z, A-Z, 0-9, space, and the special characters `_ - . : / = + @`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: (`([\p{L}\p{Z}\p{N}_ . : / = + @] )*`)

Required: Yes

### Value

A string that contains an optional Tag value.

The string length should be between 0 and 256 characters. Valid characters include a-z, A-Z, 0-9, space, and the special characters `_ - . : / = + @`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: (`([\p{L}\p{Z}\p{N}_ . : / = + @] )*`)

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TagKeys

Service: Amazon CloudFront

A complex type that contains zero or more Tag elements.

## Contents

### Items

A complex type that contains Tag key elements.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: (`[\p{L}\p{Z}\p{N}_ . : / = + \ - @ ] *`)

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Tags

Service: Amazon CloudFront

A complex type that contains zero or more Tag elements.

## Contents

### Items

A complex type that contains Tag elements.

Type: Array of [Tag](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TestResult

Service: Amazon CloudFront

Contains the result of testing a CloudFront function with `TestFunction`.

## Contents

### ComputeUtilization

The amount of time that the function took to run as a percentage of the maximum allowed time. For example, a compute utilization of 35 means that the function completed in 35% of the maximum allowed time.

Type: String

Required: No

### FunctionErrorMessage

If the result of testing the function was an error, this field contains the error message.

Type: String

Required: No

### FunctionExecutionLogs

Contains the log lines that the function wrote (if any) when running the test.

Type: Array of strings

Required: No

### FunctionOutput

The event object returned by the function. For more information about the structure of the event object, see [Event object structure](#) in the *Amazon CloudFront Developer Guide*.

Type: String

Required: No

### FunctionSummary

Contains configuration information and metadata about the CloudFront function that was tested.



Type: [FunctionSummary](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrafficConfig

Service: Amazon CloudFront

The traffic configuration of your continuous deployment.

## Contents

### Type

The type of traffic configuration.

Type: String

Valid Values: `SingleWeight` | `SingleHeader`

Required: Yes

### SingleHeaderConfig

Determines which HTTP requests are sent to the staging distribution.

Type: [ContinuousDeploymentSingleHeaderConfig](#) object

Required: No

### SingleWeightConfig

Contains the percentage of traffic to send to the staging distribution.

Type: [ContinuousDeploymentSingleWeightConfig](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrustedKeyGroups

Service: Amazon CloudFront

A list of key groups whose public keys CloudFront can use to verify the signatures of signed URLs and signed cookies.

## Contents

### Enabled

This field is `true` if any of the key groups in the list have public keys that CloudFront can use to verify the signatures of signed URLs and signed cookies. If not, this field is `false`.

Type: Boolean

Required: Yes

### Quantity

The number of key groups in the list.

Type: Integer

Required: Yes

### Items

A list of key groups identifiers.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrustedSigners

Service: Amazon CloudFront

A list of AWS accounts whose public keys CloudFront can use to verify the signatures of signed URLs and signed cookies.

## Contents

### Enabled

This field is `true` if any of the AWS accounts in the list are configured as trusted signers. If not, this field is `false`.

Type: Boolean

Required: Yes

### Quantity

The number of AWS accounts in the list.

Type: Integer

Required: Yes

### Items

A list of AWS account identifiers.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ViewerCertificate

Service: Amazon CloudFront

A complex type that determines the distribution's SSL/TLS configuration for communicating with viewers.

If the distribution doesn't use `Aliases` (also known as alternate domain names or CNAMEs)—that is, if the distribution uses the CloudFront domain name such as `d111111abcdef8.cloudfront.net`—set `CloudFrontDefaultCertificate` to `true` and leave all other fields empty.

If the distribution uses `Aliases` (alternate domain names or CNAMEs), use the fields in this type to specify the following settings:

- Which viewers the distribution accepts HTTPS connections from: only viewers that support [server name indication \(SNI\)](#) (recommended), or all viewers including those that don't support SNI.
  - To accept HTTPS connections from only viewers that support SNI, set `SSLSupportMethod` to `sni-only`. This is recommended. Most browsers and clients support SNI. (In CloudFormation, the field name is `SsLSupportMethod`. Note the different capitalization.)
  - To accept HTTPS connections from all viewers, including those that don't support SNI, set `SSLSupportMethod` to `vip`. This is not recommended, and results in additional monthly charges from CloudFront. (In CloudFormation, the field name is `SsLSupportMethod`. Note the different capitalization.)
- The minimum SSL/TLS protocol version that the distribution can use to communicate with viewers. To specify a minimum version, choose a value for `MinimumProtocolVersion`. For more information, see [Security Policy](#) in the *Amazon CloudFront Developer Guide*.
- The location of the SSL/TLS certificate, [AWS Certificate Manager \(ACM\)](#) (recommended) or [AWS Identity and Access Management \(IAM\)](#). You specify the location by setting a value in one of the following fields (not both):
  - `ACMCertificateArn` (In CloudFormation, this field name is `AcmCertificateArn`. Note the different capitalization.)
  - `IAMCertificateId` (In CloudFormation, this field name is `IamCertificateId`. Note the different capitalization.)

All distributions support HTTPS connections from viewers. To require viewers to use HTTPS only, or to redirect them from HTTP to HTTPS, use `ViewerProtocolPolicy` in the `CacheBehavior` or

`DefaultCacheBehavior`. To specify how CloudFront should use SSL/TLS to communicate with your custom origin, use `CustomOriginConfig`.

For more information, see [Using HTTPS with CloudFront](#) and [Using Alternate Domain Names and HTTPS](#) in the *Amazon CloudFront Developer Guide*.

## Contents

### ACMCertificateArn

#### Note

In CloudFormation, this field name is `AcmCertificateArn`. Note the different capitalization.

If the distribution uses `Aliases` (alternate domain names or CNAMEs) and the SSL/TLS certificate is stored in [AWS Certificate Manager \(ACM\)](#), provide the Amazon Resource Name (ARN) of the ACM certificate. CloudFront only supports ACM certificates in the US East (N. Virginia) Region (`us-east-1`).

If you specify an ACM certificate ARN, you must also specify values for `MinimumProtocolVersion` and `SSLSupportMethod`. (In CloudFormation, the field name is `SslSupportMethod`. Note the different capitalization.)

Type: String

Required: No

### Certificate

This field is deprecated. Use one of the following fields instead:

- `ACMCertificateArn` (In CloudFormation, this field name is `AcmCertificateArn`. Note the different capitalization.)
- `IAMCertificateId` (In CloudFormation, this field name is `IamCertificateId`. Note the different capitalization.)
- `CloudFrontDefaultCertificate`

Type: String

Required: No

## CertificateSource

This field is deprecated. Use one of the following fields instead:

- `ACMCertificateArn` (In CloudFormation, this field name is `AcmCertificateArn`. Note the different capitalization.)
- `IAMCertificateId` (In CloudFormation, this field name is `IamCertificateId`. Note the different capitalization.)
- `CloudFrontDefaultCertificate`

Type: String

Valid Values: `cloudfront` | `iam` | `acm`

Required: No

## CloudFrontDefaultCertificate

If the distribution uses the CloudFront domain name such as `d111111abcdef8.cloudfront.net`, set this field to `true`.

If the distribution uses `Aliases` (alternate domain names or CNAMEs), set this field to `false` and specify values for the following fields:

- `ACMCertificateArn` or `IAMCertificateId` (specify a value for one, not both)

In CloudFormation, these field names are `AcmCertificateArn` and `IamCertificateId`. Note the different capitalization.

- `MinimumProtocolVersion`
- `SSLSupportMethod` (In CloudFormation, this field name is `SslSupportMethod`. Note the different capitalization.)

Type: Boolean

Required: No

## IAMCertificateId

### Note

In CloudFormation, this field name is `IamCertificateId`. Note the different capitalization.

If the distribution uses `Aliases` (alternate domain names or CNAMEs) and the SSL/TLS certificate is stored in [AWS Identity and Access Management \(IAM\)](#), provide the ID of the IAM certificate.

If you specify an IAM certificate ID, you must also specify values for `MinimumProtocolVersion` and `SSLSupportMethod`. (In CloudFormation, the field name is `SslSupportMethod`. Note the different capitalization.)

Type: String

Required: No

### MinimumProtocolVersion

If the distribution uses `Aliases` (alternate domain names or CNAMEs), specify the security policy that you want CloudFront to use for HTTPS connections with viewers. The security policy determines two settings:

- The minimum SSL/TLS protocol that CloudFront can use to communicate with viewers.
- The ciphers that CloudFront can use to encrypt the content that it returns to viewers.

For more information, see [Security Policy](#) and [Supported Protocols and Ciphers Between Viewers and CloudFront](#) in the *Amazon CloudFront Developer Guide*.

#### Note

On the CloudFront console, this setting is called **Security Policy**.

When you're using SNI only (you set `SSLSupportMethod` to `sni-only`), you must specify TLSv1 or higher. (In CloudFormation, the field name is `SslSupportMethod`. Note the different capitalization.)

If the distribution uses the CloudFront domain name such as `d111111abcdef8.cloudfront.net` (you set `CloudFrontDefaultCertificate` to `true`), CloudFront automatically sets the security policy to TLSv1 regardless of the value that you set here.

Type: String

Valid Values: `SSLv3` | `TLSv1` | `TLSv1_2016` | `TLSv1.1_2016` | `TLSv1.2_2018` | `TLSv1.2_2019` | `TLSv1.2_2021`



Required: No

## SSLSupportMethod

### Note

In CloudFormation, this field name is `Ss1SupportMethod`. Note the different capitalization.

If the distribution uses `Aliases` (alternate domain names or CNAMEs), specify which viewers the distribution accepts HTTPS connections from.

- `sni-only` – The distribution accepts HTTPS connections from only viewers that support [server name indication \(SNI\)](#). This is recommended. Most browsers and clients support SNI.
- `vip` – The distribution accepts HTTPS connections from all viewers including those that don't support SNI. This is not recommended, and results in additional monthly charges from CloudFront.
- `static-ip` – Do not specify this value unless your distribution has been enabled for this feature by the CloudFront team. If you have a use case that requires static IP addresses for a distribution, contact CloudFront through the [AWS Support Center](#).

If the distribution uses the CloudFront domain name such as `d111111abcdef8.cloudfront.net`, don't set a value for this field.

Type: String

Valid Values: `sni-only` | `vip` | `static-ip`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# VpcOrigin

Service: Amazon CloudFront

An Amazon CloudFront VPC origin.

## Contents

### Arn

The VPC origin ARN.

Type: String

Required: Yes

### CreatedTime

The VPC origin created time.

Type: Timestamp

Required: Yes

### Id

The VPC origin ID.

Type: String

Required: Yes

### LastModifiedTime

The VPC origin last modified time.

Type: Timestamp

Required: Yes

### Status

The VPC origin status.

Type: String

Required: Yes

## VpcOriginEndpointConfig

The VPC origin endpoint configuration.

Type: [VpcOriginEndpointConfig](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VpcOriginConfig

Service: Amazon CloudFront

An Amazon CloudFront VPC origin configuration.

## Contents

### VpcOriginId

The VPC origin ID.

Type: String

Required: Yes

### OriginKeepaliveTimeout

Specifies how long, in seconds, CloudFront persists its connection to the origin. The minimum timeout is 1 second, the maximum is 60 seconds, and the default (if you don't specify otherwise) is 5 seconds.

For more information, see [Keep-alive timeout \(custom origins only\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Integer

Required: No

### OriginReadTimeout

Specifies how long, in seconds, CloudFront waits for a response from the origin. This is also known as the *origin response timeout*. The minimum timeout is 1 second, the maximum is 60 seconds, and the default (if you don't specify otherwise) is 30 seconds.

For more information, see [Response timeout \(custom origins only\)](#) in the *Amazon CloudFront Developer Guide*.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VpcOriginEndpointConfig

Service: Amazon CloudFront

An Amazon CloudFront VPC origin endpoint configuration.

## Contents

### Arn

The ARN of the CloudFront VPC origin endpoint configuration.

Type: String

Required: Yes

### HTTPPort

The HTTP port for the CloudFront VPC origin endpoint configuration.

Type: Integer

Required: Yes

### HTTPSPort

The HTTPS port of the CloudFront VPC origin endpoint configuration.

Type: Integer

Required: Yes

### Name

The name of the CloudFront VPC origin endpoint configuration.

Type: String

Required: Yes

### OriginProtocolPolicy

The origin protocol policy for the CloudFront VPC origin endpoint configuration.

Type: String

Valid Values: `http-only` | `match-viewer` | `https-only`

Required: Yes

## OriginSslProtocols

A complex type that contains information about the SSL/TLS protocols that CloudFront can use when establishing an HTTPS connection with your origin.

Type: [OriginSslProtocols](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# VpcOriginList

Service: Amazon CloudFront

A list of CloudFront VPC origins.

## Contents

### IsTruncated

A flag that indicates whether more VPC origins remain to be listed. If your results were truncated, you can make a follow-up pagination request using the `Marker` request parameter to retrieve more VPC origins in the list.

Type: Boolean

Required: Yes

### Marker

The marker associated with the VPC origins list.

Type: String

Required: Yes

### MaxItems

The maximum number of items included in the list.

Type: Integer

Required: Yes

### Quantity

The number of VPC origins in the list.

Type: Integer

Required: Yes

### Items

The items of the VPC origins list.

Type: Array of [VpcOriginSummary](#) objects

Required: No

### **NextMarker**

The next marker associated with the VPC origins list.

Type: String

Required: No

### **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VpcOriginSummary

Service: Amazon CloudFront

A summary of the CloudFront VPC origin.

## Contents

### Arn

The VPC origin summary ARN.

Type: String

Required: Yes

### CreatedTime

The VPC origin summary created time.

Type: Timestamp

Required: Yes

### Id

The VPC origin summary ID.

Type: String

Required: Yes

### LastModifiedTime

The VPC origin summary last modified time.

Type: Timestamp

Required: Yes

### Name

The VPC origin summary name.

Type: String

Required: Yes

## OriginEndpointArn

The VPC origin summary origin endpoint ARN.

Type: String

Required: Yes

## Status

The VPC origin summary status.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## Amazon CloudFront KeyValueStore

The following data types are supported by Amazon CloudFront KeyValueStore:

- [DeleteKeyRequestListItem](#)
- [ListKeysResponseListItem](#)
- [PutKeyRequestListItem](#)

# DeleteKeyRequestListItem

Service: Amazon CloudFront KeyValueStore

List item for keys to delete.

## Contents

### Key

The key of the key-value pair to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ListKeysResponseListItem

Service: Amazon CloudFront KeyValueStore

A key-value pair.

## Contents

### Key

The key of the key-value pair.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

### Value

The value of the key-value pair.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PutKeyRequestListItem

Service: Amazon CloudFront KeyValueStore

List item for key-value pair to put.

## Contents

### Key

The key of the key-value pair list item to put.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

### Value

The value for the key-value pair to put.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.



For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**UnknownOperationException**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

**ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400