

# Zielbox AWS Cloud Course Content



This in-depth AWS course builds your good understanding on Compute, Memory, Networking, Storage, Cache offerings and finally some discussion around Well Architecture Framework of AWS that will help in building your good understanding of AWS Cloud services and will help you to handle DevOps or Cloud Engineer role in the industry.

## Section 1: Introduction to The Course

- 1. Introduction of Cloud computing and AWS
- 2. Getting Started - What You'll Need

## Section: 2 AWS - Service Overview

- 4-8. The history of AWS so far and its competitors
- 9. New AWS Console

## Section: 3 Identity Access Management (IAM)

- 10. IAM 101
- 11. IAM Lab
- 12. Create A Billing Alarm
- 13. IAM Summary

## Section: 4 AWS Object Storage and CDN - S3, Glacier and CloudFront

- 14. S3 - 101
- 15. Create an S3 Bucket (Lab)
- 16. Version Control (Lab) 13:10
- 17. Lifecycle Management & Glacier (Lab)
- 18. CloudFront
- 19. Create a CDN (Lab)
- 20. S3 - Security & Encryption
- 21. Storage Gateway
- 22. Snowball
- 23. S3 Transfer Acceleration
- 24. Create A Static Website Using S3
- 25. S3 Summary of what we've learnt

## Section: 5 EC2 - The Backbone of AWS

- 26. Introduction & Overview
- 27. EC2 101 - Part 2
- 28. Lets get our hands dirty! Launch an EC2 Instance
- 29. How to use Putty (Windows Users Only)
- 30. Security Groups Basics

- 31. Volumes and Snapshots
- 32. Creating a Windows EC2 Instance & RAID Group
- 33. Create an AMI
- 34. AMI's - EBS root volumes vs Instance Store
- 35. Load Balancers & Health Checks
- 36. Cloud Watch EC2
- 37. The AWS Command Line & EC2
- 38. Using IAM roles with EC2
- 39. Using Bootstrap Scripts

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- 40. EC2 Instance Meta-data
- 41. Autoscaling 101
- 42. EC2 Placement Groups - An Exam Must Know!
- 43. EFS - Concepts & Lab
- 44. Lambda - Concepts
- 45. EC2 Summary

## Section: 6 Route53

- 46. DNS 101
- 47. Route53 - Lab
- 48. Route53 - Routing Policies
- 49. Route53 - Summary

## Section: 7 Databases on AWS

- 50. Databases 101
- 51. Launching an RDS Instance
- 52. Backups, Multi-AZ & Read Replicas
- 53. DynamoDB
- 54. RedShift
- 55. Elasticache
- 56. Aurora
- 57. Databases Summary

## Section: 8 VPC

- 58. Introduction & Overview
- 59. Build your own custom VPC
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- 60. Build Your Own Custom VPC Part 2
- 61. Network Address Translation (NAT)
- 62. Network Access Control Lists vs Security Groups
- 63. ELB's & VPCs
- 64. NATs vs Bastions
- 65. VPC Flow Logs
- 66. VPC Clean Up

- 67. Summary

## Section: 9 Application Services

- 68. SQS
- 69. SWF.
- 70. SNS
- 71. Elastic Transcoder
- 72. Application Services Summary

## Section: 10 The Real World - Creating a fault tolerant Word Press Site

- 73. Setting Up Our Environment
- 74. Setting Up EC2

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- 75. Automation & Setting Up Our AMI

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- 76. Configuring Autoscaling & Load Testing

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- 77. CloudFormation!
- 78. Want to be a real Solutions Architect? You need to know CloudFormation!

## Section: 11 Preparing for the Exam - White Paper Reviews

- 79. Overview of Amazon Web Services

- 80. Overview of Security Processes - Part 1
- 81. Overview of Security Processes - Part 2
- 82. AWS Risk & Compliance
- 83. Storage Options in the Cloud
- 84. Architecting for the AWS Cloud: Best Practices
- 85. NA

## Section: 12 Additional Exam Tips

- 86. Exam Tips - Based on student feedback.
- 87. Consolidated Billing
- 88. Resource Groups & Tagging
- 89. VPC Peering
- 90. Direct Connect
- 91. Active Directory Integration

## Section: 13 The Well Architected Framework

- 92. Introduction to The Well Architected Framework
- 93. Pillar One - Security
- 94. Pillar Two - Reliability
- 95. Pillar Three - Performance Efficiency
- 96. Pillar Four - Cost Optimization
- 97. Summary of The Well Architected Framework