



## DEVOPS

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### Introduction To DevOps

- What Is DevOps
  - DevOps Main Objectives
  - DevOps And Software Development Life Cycle
  - Continuous Integration & Deployment
  - Containers And Virtual Development
  - Configuration Management Tools
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### Cloud Computing

- What Is Cloud?
- Evolution Of Cloud Computing
- IAAS (Infrastructure As A Service)
- SAAS (Software As A Service)
- PAAS (Platform As A Service)
- Private, Public And Hybrid Cloud
- Public Clouds

## AWS

- Intro
- IAM S3
- SDK
- Paramstore S3–Adv Cloudshell
- EC2 Creation
- EC2 Deployment
- EC2 Networking
- EC2 Nginx
- ECR
- ECS
- EB
- Lambda
- Postgres
- RDS
- CDN
- CloudFront
- Additional Topics
- CodeCommit
- Code Pipeline
- Cloudformation Intro
- CloudFormation Adv



## **LINUX Basics**

- Linux OS Introduction
- Importance Of Linux In DevOps
- Linux Basic Command Utilities
- Linux Administration
- Environment Variables
- Networking
- APT Installation

## **Version Control – GIT**

- Intro
- Git Basics
- Commits
- GitHub
- Remotes GitLab
- Branching
- Pull Requests
- Forking
- Stashing Conclusion Recap

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## Docker

- Intro
- Installation
- Basic Commands
- Advanced Commands
- Docker Files
- Image Handling
- Building Microservices
- Docker Compose
- Push Registry Conclusion

## Kubernetes

- Intro
- Main Components
- K8s Architecture
- MiniKube Kubectl
- Dashboard
- Basic App
- Debugging & Kubectl
- Building Microservices

- Deploying Microservices
  - Ingress
  - Volume Services
  - Helm
  - ArgoCD-Wrapup
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## **Terraform**

- Intro
  - Setup
  - Commands
  - Demo Project And Wrapup
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## **Continuous Integration – Jenkins, CircleCI, GH Actions**

- CI CD Intro
- Jenkins Intro
- Jenkins Jobs
- GH Actions
- GH Jenkins
- Circle CI Recap Wrapup

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Mail id:- [info@cloudelevate.in](mailto:info@cloudelevate.in)

Mobile no:- +91 7531014124

Website:- [www.cloudelevate.in](http://www.cloudelevate.in)

