



DEVOPS

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

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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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
- CF EC2 And Recap



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