



# AWS DEVOPS ENGINEER TRAINING

# COURSE HIGHLIGHTS



**Hands-on experience**



**Flexible scheduling**



**One-on-One Sessions**



**Expert-led learning**



**Duration 30-35 Hours**



**Live virtual training**



**Post-training mentorship**

## COURSE OBJECTIVES

- ▶ DevOps Engineers
- ▶ System Administrators
- ▶ Solution Architects
- ▶ Deployment Specialists
- ▶ Server Administrators
- ▶ IT Administrators
- ▶ SysOps Professionals
- ▶ Application Developers
- ▶ Operations Engineers
- ▶ DevOps Architect





## INTRODUCTION TO AWS & DEVOPS

- DevOps Fundamentals & Principles
- AWS Cloud Concepts & Global Infrastructure
- AWS Shared Responsibility Model
- AWS Security & Compliance Basics

## SDLC AUTOMATION & CI/CD PIPELINES

- Continuous Integration & Continuous Deployment (CI/CD) Basics
- AWS CodePipeline – CI/CD Automation
- AWS CodeBuild – Build Automation
- AWS CodeDeploy – Deployment Automation
- AWS CodeCommit – Managed Git Repositories
- AWS CodeArtifact – Package Management
- Integration with GitHub, Jenkins, and Other Tools
- Blue-Green & Canary Deployments

## INFRASTRUCTURE AS CODE (IAC) & CONFIGURATION MANAGEMENT

- AWS CloudFormation – Infrastructure Automation
- AWS CDK (Cloud Development Kit) – Programming Infrastructure
- Terraform on AWS
- AWS Systems Manager – Automation, Patch Management
- AWS OpsWorks (Chef & Puppet) – Configuration Management

## MONITORING, LOGGING & OBSERVABILITY

- Amazon CloudWatch – Metrics, Logs, Alarms, Dashboards
- AWS X-Ray – Distributed Tracing
- AWS CloudTrail – Auditing & Security Logging
- AWS Config – Compliance & Change Tracking
- AWS Security Hub & AWS Trusted Advisor
- Prometheus & Grafana for AWS Monitoring

## HIGH AVAILABILITY, FAULT TOLERANCE & DISASTER RECOVERY

- AWS Auto Scaling & Elastic Load Balancer (ELB)
- AWS Multi-AZ & Multi-Region Deployments
- AWS Backup Strategies
- AWS Route 53 & Failover Routing
- AWS Disaster Recovery (Pilot Light, Warm Standby, Multi-Site)

## SECURITY & COMPLIANCE IN DEVOPS

- AWS IAM (Identity and Access Management)
- AWS Secrets Manager & AWS Parameter Store
- AWS Key Management Service (KMS) & Encryption
- AWS Shield (DDoS Protection) & AWS WAF
- AWS Inspector & AWS Audit Manager
- Security Best Practices in CI/CD & DevSecOps

## CONTAINERS & SERVERLESS DEVOPS

- Amazon ECS (Elastic Container Service) & EKS (Elastic Kubernetes Service)
- AWS Fargate (Serverless Containers)
- Amazon Lambda (Serverless Computing)
- AWS App Runner & AWS Copilot

## NETWORKING & PERFORMANCE OPTIMIZATION

- Amazon VPC (Virtual Private Cloud) & Networking Basics
- AWS Transit Gateway & PrivateLink
- AWS Global Accelerator & CloudFront (CDN)
- AWS Direct Connect & Site-to-Site VPN

## COST MANAGEMENT & OPTIMIZATION

- AWS Cost Explorer & AWS Budgets
- AWS Compute Savings Plans & Reserved Instances
- Right-Sizing EC2 & Auto Scaling Best Practices

## AWS WELL-ARCHITECTED FRAMEWORK FOR DEVOPS

- Operational Excellence & Reliability
- Performance Efficiency & Cost Optimization
- Security & Compliance