

AWS & DEVOPS

COURSE CURRICULUM



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AWS & DEVOPS (ZERO TO HERO) CURRICULUM

About AWS

- AWS Architect Certification Training Overview
- Designing cost-efficient, highly available systems
- Interaction with clients to gather requirements and build solutions

Career Objective

This course helps you:

- Navigate AWS certification exam process
- Understand exam structure & question types
- Connect questions with AWS architecture
- Interpret exam concepts
- Prepare effectively for the AWS Solutions Architect Associate exam
- Course Duration: 55 Hours Approx.
- Pre-Requisite: Any Graduation + Basic IT Infrastructure Knowledge

Module Breakdown

Linux Basics

- History, Architecture, Commands, Resource Utilization
- Apache Installation & Working

Windows Basics

- Overview & Architecture of Windows Servers
- Roles, Features, and IIS Configuration

Cloud Computing Concepts

- On-Premise vs Cloud
- Cloud Deployment Models: Public, Private, Hybrid
- Cloud Service Models: SAAS, PAAS, IAAS

Core AWS Services

- EC2, S3, VPC, EBS, EFS, ELB, ASG, IAM
- CloudFormation, Lambda, SNS, CloudFront, CloudWatch
- Route 53, Glacier, KMS, ElastiCache, RDS, SES, SQS

DEEP DIVE: AWS MODULES

IAM (Identity & Access Management)

User/Group/Roles Creation
MFA, Policy Creation, Cross-account Access

EC2 (Elastic Compute Cloud)

Instance Setup (Linux/Windows), AMIs, Key Pairs, Elastic IP
Pricing Models: On-Demand, Reserved, Spot, Dedicated
Bootstrapping, Security Groups, Meta-data, ENIs

EBS (Elastic Block Storage)

Volume Types, Encryption, Snapshots, Resizing, Performance

ELB (Elastic Load Balancer)

CLB, ALB, NLB Setup
Health Checks, Sticky Sessions, Logging

EFS

Configuration with Linux, Performance Tuning

Auto Scaling

Launch Configs, ASG Setup, Load Policies, Notifications

S3

Buckets, Permissions, Encryption, CORS, Static Website Hosting
Versioning, Lifecycle Rules, Glacier Integration

VPC

Subnets, Route Tables, IGW, NAT, NACL, VPN, Peering

Monitoring Tools

CloudWatch, CloudTrail, SNS

Elastic Beanstalk

App Deployment, Configuration & Scaling

RDS

DB Engine Setup, Backup, Snapshots, IAM Security, Replication

AWS Billing & Optimization

Budget Setup, Cost Control Measures

DEVOPS TOOLS

Git & GitHub

Branching, Merging, Rebase, SSH, P4Merge, Git Security

Maven

POM Files, Build Lifecycle, Plugin Usage

SonarQube

Installation, Report Generation, Admin Tasks

Apache Tomcat

Deployment, User Roles, Port Config, GUI & CLI Deployment

Nexus

Repository Management, Maven Integration

Jenkins (CI/CD)

Freestyle Jobs, Pipelines, Triggers, Master-Slave, Plugins

Docker

Containers, Dockerfiles, Volumes, Registry, Swarm

Ansible

Playbooks, Inventory, Modules, Loops, Vault, Roles, Docker Automation

Kubernetes

Pods, Services, Deployments, Volumes, HPA
Cluster Setup (KOPS, Terraform), Prometheus, Helm Charts

Terraform

Infrastructure as Code, Modules, Remote States
EC2, S3, VPC Setup, Kubernetes with Terraform

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Thank you



Thank You for Going Through AWS & Devops Curriculum
We hope this guide has provided a clear and structured learning path
to strengthen your skills in AWS & Devops.

📌 **NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

📞 **Need Help or Guidance?**

Feel free to contact our course support team:

Course Coordinator

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