



AWS, AZURE CLOUD COURSES

Prepared By (CTO) SYNTHOQUEST

45 Days Duration

Duration: 45 days × 2 hrs/day = 90 hrs

Goal: Equip learners with practical knowledge and hands-on skills in cloud computing, deployment, storage, networking, security, and cloud services for AWS and Azure.

Core Domains

1. Cloud Computing Fundamentals (5%)

- Introduction to cloud computing: IaaS, PaaS, SaaS
- Benefits, use cases, and cloud service models
- Public, private, hybrid cloud concepts

2. AWS Core Services (25%)

- Compute: EC2, Lambda, Auto Scaling, Elastic Beanstalk
- Storage: S3, EBS, EFS, Glacier
- Database: RDS, DynamoDB, Aurora
- Networking: VPC, Route 53, Load Balancer, CloudFront
- Security: IAM, KMS, Security Groups
- Hands-on: Launch EC2 instance, S3 bucket setup, IAM user policies

3. Azure Core Services (25%)

- Compute: Virtual Machines, Azure Functions, App Services
- Storage: Blob Storage, File Storage, Disk Storage
- Database: Azure SQL, Cosmos DB
- Networking: Virtual Network, Load Balancer, Azure DNS
- Security: Azure AD, NSG, Key Vault
- Hands-on: Deploy VM, create storage account, configure Azure AD

4. Cloud Networking & Security (10%)

- VPC, subnets, VPNs, peering, NSGs, firewalls
- Security best practices for cloud workloads
- Cloud monitoring and logging: CloudWatch, Azure Monitor

5. Cloud Deployment & Automation (10%)

- Infrastructure as Code (IaC): AWS CloudFormation, Azure ARM Templates
- Deployment automation using CLI and SDKs
- CI/CD pipelines integration with AWS CodePipeline & Azure DevOps

6. Serverless & Containers (10%)

- AWS Lambda, Azure Functions
- Containers: Docker basics, ECS, EKS, Azure Container Instances, AKS
- Hands-on: Deploy serverless function and containerized app

7. Cloud Monitoring & Cost Management (5%)

- Billing and cost optimization in AWS & Azure
- Cloud monitoring, logging, and alerting
- Reporting and dashboards

8. Cloud Migration & Best Practices (10%)

- Lift-and-shift, hybrid, and multi-cloud strategies
- High availability, fault tolerance, disaster recovery
- Cloud security & compliance

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