

AWS Comprehensive Course Curriculum

1. Introduction of Cloud Computing

- History
- What is Cloud?
- Why we use Cloud.
- Which cloud we use and Why?
- Where we can Use Cloud.
- Types of Cloud. (Public, Private, Hybrid, Community)
- Deployment Models of Cloud (IAAS, PAAS, SAAS)

2. Introduction of AWS Cloud

- History
- Few Services provided by the AWS Cloud
- Categories of AWS Services.

3. Identity and Access Management (IAM)

- Introduction
- Root Account vs IAM User
- Users
- Group
- Policies



4. Simple Storage service (S3)

- Introduction
- Storage Classes
- Lifecycle Management
- Versioning
- Cross-region Replication
- Storage Gateway

5. Elastic Compute Cloud (EC2)

- Introduction
- EC2 Instance Types
- Security Group Basics
- EBS
- Volumes & Snapshots
- EC2 Metadata
- Elastic File System

6. Databases on AWS

- Introduction
- RDS backups, Multi AZs and Read Replicas
- DynamoDB
- Redshift
- Aurora
- ElastiCache



7. Route53

- Introduction
- Routing Policies
- Simple Routing Policy
- Weighted Routing Policy
- Latency Routing Policy
- Failover Routing Policy
- Geoproximity Routing Policy (Traffic Flow Only)
- Multivalue Answer

8. Virtual Private Cloud (VPC)

- Introduction
- Subnets
- Network Address Translation
- VPC Flow Logs
- VPC End Points
- VPC Peering
- Direct Connect

9. High Available Architecture

- Introduction
- Load Balancer
- Autoscaling Group
- CloudFormation
- Beanstalk



10. Serverless

- Server vs Serverless
- Introduction
- No Servers Really
- Why Lambda

11. CloudWatch

- Introduction
- Monitoring EC2 with Custom metrics
- Monitoring EBS
- Monitoring ELB
- Creating a billing Alarm
- AWS Resource Group and Tagging
- AWS Config vs AWS CloudTrail vs Cloudwatch

12. Application Services

- Simple Queue Service (SQS)
- Simple Workflow Service (SWS)
- Simple Notification Service (SNS)
- API Gateway
- Kinesis
- Elastic Transcoder

13. AWS DevOps Tools

- DevOps in AWS
- Code Pipeline/Code Build
- Code Commit/Code Deploy

