



## AWS - Solution Architect Associate

### Introduction

Setting up free-tier AWS account  
AWS console details

IAM, S3, Ec2&EBS, ELB & Autoscaling, VPC, Database, Route 53, serverless, security, Ecs, Ecr, CI/CD

Introduction to IAM  
Getting started with IAM  
IAM Users and Groups  
IAM Policies  
5. IAM Roles  
6. IAM Best Practices  
7. Summary, Exam Tips

### s3

1. Introduction to S3
2. Fundamentals of S3
3. Object storage vs Block storage
4. Getting started with S3
5. Versioning
6. Encryption
7. Tags, Transfer Acceleration, and Multipart Upload
8. Events
9. Permissions - Bucket Policy & ACL
10. Object Lifecycle Management
11. Cross-Region Replication
12. Storage Classes
13. Static Website Hosting
14. Analytics, Metrics and Inventory
15. Server & Object level logging

### EC2

1. Introduction to ec2
2. Creating an EC2
3. Managing the EC2 Instance
4. AMI - Image
5. EBS Volume, Snapshots
6. Instance Store and Placement Groups

### ELB & Autoscaling

1. Introduction

2. Application Load Balancer
3. Network Load Balancer
4. Autoscaling

## **VPC**

1. Introduction to vpc
2. Setting up the VPC
3. VPC Wizard
4. NAT Instance Vs NAT Gateway
5. VPC Peering and VPC Endpoints
6. VPC Flow Logs

## **Databases and Caching service**

1. Redshift
2. DynamoDB - SQL vs NoSQL
3. DynamoDB - Tables, Item, Attributes, and Indexes
4. DynamoDB - Global Secondary Index vs Local Secondary Index
5. DynamoDB - Read Consistency and Throughput Capacity
6. DynamoDB - Autoscaling
7. DynamoDB - Encryption
8. DynamoDB - Query vs Scan
9. DynamoDB - DynamoDB Streams
10. DynamoDB - DynamoDB Accelerator

## **Route53**

1. Registering a Domain
2. Simple Routing Policy
3. Weighted Routing Policy
4. Latency Routing Policy
5. Geographical Routing Policy
6. Failover Routing Policy
7. Multivalue Answer Routing Policy

## **Command line interface**

1. AWS CLI Installation & Configuration
2. AWS SDK Introduction
3. S3 CLI
4. EC2 & EBS CLI

## **Serverless**

1. AWS Lambda
2. AWS Athena
3. AWS API Gateway

## **CI/CD and Developer tools**

1. Elastic Beanstalk
2. AWS Developer Tools Overview
3. Code Commit
4. Code Build
5. CodeDeploy
6. Code Pipeline
7. AWS Cloud9

## **Security**

1. KMS
2. Cognito

## **ECS, ECR, Fargate**

1. Create ECS Cluster
2. Create ECS Task Definition
3. Create ECS Service
4. Load Balancer for ECS
5. Auto Scale ECS
6. ECS Task Placement Constraints & Strategies
7. ECR
8. Fargate

## **Additional Key services**

1. Dashboards and Alarms
2. SQS, SNS and SWF
3. CloudFormation
4. CloudFront
5. CloudTrail