

Course : Amazon Web Services Solutions Architect

Module 1 – Exam Preparation and Study Techniques

Objectives – At the end of this Module, you should be able to:

- a) Exam Preparation and Study Techniques
- b) Preparation for the AWS exam
- c) Resources and Study Aids
- d) Passing the Exam, the First Time

Module 2 - Cloud Computing Concepts

Objectives – At the end of this Module, you should be able to:

- a) Cloud History
- b) Cloud Computing Concepts
- c) Cloud Deployment Models
- d) Cloud Delivery Models
- e) Cloud Computing Benefits

Module 3 - AWS Overview

Objectives – At the end of this Module, you should be able to:

- a) AWS History**
- b) Brief Overview of AWS**
- c) AWS as a Market Leader**
- d) AWS's Globally Distributed Infrastructure**
- e) Discuss AWS 70+ Products and Services**

Module 4 - AWS Compute

Objectives – At the end of this Module, you should be able to:

- a) AWS Account setup**
- b) Amazon Elastic Compute Cloud (EC2) Concepts**
- c) Working on EC2 Instances**
- d) Working with Amazon Machine Images (AMI)**

Module 5 - Storage Operations

Objectives – At the end of this Module, you should be able to:

- a) Elastic Block Storage Operations - EBS**
- b) Elastic File System Operations -EFS**
- c) Simple Storage Service Operations – S3**
 - a) S3 Standard**
 - b) S3 Standard IA**
 - c) Reduced Redundancy Storage**
 - d) Glacier**
- d) Managing S3 storage operations with third party tools**
- e) Managing AWS Export and export data using**
 - a) Snowball**
 - b) Snowball Edge**
 - c) SnowMobile**
- f) Storage Cost and Best Practices**

Module 6 - AWS Security

Objectives – At the end of this Module, you should be able to:

- a) Identity Access Management – IAM**
- b) Amazon Directory Service**
- c) Amazon Inspector**

Module 7 - AWS Networking

Objectives – At the end of this Module, you should be able to:

- a) Amazon Virtual Private Cloud – VPC**
- b) Direct Connect**
- c) Virtual Private Networks**

Module 8 - Advanced Networking

Objectives – At the end of this Module, you should be able to:

- a) Working with Elastic Load Balancer (ELB)
- b) Auto Scaling in AWS

Module 9 - Managing Amazon DNS Route 53

Module 10 - Content Delivery using Cloud Front

Module 11 - Managing Databases in AWS

Objectives – At the end of this Module, you should be able to:

- a) RDS
- b) DynamoDB
- c) Redshift
- d) ElastiCache
- e) AWS Database best Practices
- f) AWS Databases Costs

Module 12 - Database Migrations using Amazon DMS

- a) Heterogeneous Migrations**
- b) homogeneous Migrations**

Module 13 -AWS Management and Monitoring Tools

Objectives – At the end of this Module, you should be able to:

- a) Cloud Watch**
- b) Cloud Trail**
- c) Trusted Advisor**

Module 14 - AWS Application services

Objectives – At the end of this Module, you should be able to:

- a) Simple Queue Service (SQS)**
- b) Simple Notification Service (SNS)**

Module 15 - Disaster recovery Scenarios

Module 16 - Server Migration Strategies

Module 17 - Troubleshooting AWS Services

Module 18 - Best Security practices for cloud deployments

Module 19 : Using AWS Command Line Interface (CLI)

Module 20 : How to integrate AWS Lambda functions with other AWS Services

Module 21: Case Studies

Bonus Module – Linux Basics and Administration

Objectives – At the end of this Module, you should be able to:

- a) Introduction to Linux**
- b) Installation of Linux**
- c) Linux System Structure**
- d) Software Package Administration**
- e) User and Group Administration**
- f) Advanced File Permissions**
- g) Disk Partitioning and Mounting File System**