





AWS Certified Solutions Architect - Associate

(Training leading to AWS Certified Solutions Architect - Associate Exam)

Duration: 70 - 80 Hours

(including Exam Preparation and Lab)

Course Outcome:

By being an AWS Certified Solution Architect - Associate, should be able to evaluate the requirements of the organization or the businesses and make architectural recommendations for implementation and deployment of the application on AWS.

While completing this course, the participants should be able to demonstrate these skills:

- Launch different servers like Linux, Windows, Mac and Manage Storages for Servers and Backups
- Design the overall networking environment for servers
- Scaling Servers based on needs using Auto Scaling
- Deploy, Manage and Scale applications using container orchestration service
- Distributing traffic using Load Balancers
- Monitor Server Resources and Account activities
- Setup Database Engines and Secure Servers and Services







- Storing files securely using Object Storage method and Share Storage Disks among Servers via Network
- Data Migrations and Data Transfer
- Understand different encryption methods and Application level integration services
- Speed up hosted websites using Content Delivery Network

Syllabus

- ☐ Introduction to Cloud Computing
 - ☐ Cloud Environment Architecture
 - ☐ Cloud Computing Models
 - ☐ Introduction to Amazon Web Services
 - AWS Global Infrastructure

Section 2: Elastic Compute Cloud

- ☐ Launching our first EC2 instance
- ☐ EC2 instance types & Pricing Models
- ☐ Creating AMI and Image Templates
- ☐ Understanding Security Groups a Server side Firewall

Section 3: Virtual Private Cloud

☐ Introduction to Network Switches & Virtual Private Cloud







	VPC & Subnets
	Private and Public Subnets
	Internet Gateways, VPC Peering & NAT Gateways
	VPN Setup
	IP Addressing in AWS
Sectio	on 4: Storage
	Introduction to Block & Object storage mechanism
	Introduction to Elastic Block Store - EBS
	EBS Snapshots
	EBS Volume Types
	Instance Store Volumes
	Introduction to Simple Storage Service (S3)
	Features of S3
	Storage Types
	Static Website Hosting
	Versioning
	Life Cycle Policy
	Cross Region Replication
	Encryption
	Basics of Athena
	Introduction to EFS
	Connect a drive via network
	Share the drive among multiple servers







Section 5: Elastic Load Balancers and Elasticity
Understanding High Availability Configuration
ELB Configuration with Classic and Application Load Balancers
☐ Auto Scaling
Section 6: Identity & Access Management
Understanding the IAM Policies
☐ IAM User, IAM Policy and IAM Role
Section 7: Databases
Introduction to Relational Databases
Creating our first database structure in MySQL
Getting started with DynamoDB
Know about ElastiCache, Redshift
Section 8: Decoupling Applications
☐ Amazon SQS
☐ Amazon SNS
☐ Amazon SES
☐ Kinesis Overview







Section 9: Domain Name System	
☐ Introduction to DNS	
Understanding DNS Records	
☐ Introduction to Route53	
☐ Register a Domain using Route 53	
Manage DNS Hosts	
Section 10: AWS CloudFront	
☐ Introduction to CloudFront	
☐ CloudFront with S3	
CloudFront Advanced Concepts	
Section 11: AWS ECS	
☐ Getting Started with Containerization	
■ ECS Services and Tasks	
☐ Load Balancing in ECS	
☐ ECS Scaling	
Section 12: AWS Storage Extras	
■ AWS Snowball	

☐ Storage Gateways







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ū	Hands on API Gateways
Sectio	on 13: Serverless Computing
	Serverless Introduction
	Lambda
	Setting up Server Auto Start with a Lambda Function
	Elastic Beanstalk
	Host a Sample PHP website using Elastic Beanstalk
Sectio	on 14: AWS CLI and SDK
	Getting Started with AWS CLI
	AWS CLI setup on EC2 instances
0	Connect EC2 instance with other AWS services like S3 or SNS or SES
Sectio	on 15: AWS Encryptions
	AWS Security
	KMS Overview
	SSM Parameter Store
	CouldHSM
Sectio	on 16: Migration Service and Disaster Recovery
	Database Migration Services
	DataSync Overview
	AWS Backups







Section 17: Monitoring

- ☐ Understanding CloudWatch
- ☐ Setup Alarms for Matrix changes
- ☐ Auditing AWS environment with CloudTrail
- ☐ Schedule Event Rules using Target based services

Section 18: Other Services

- AWS Key Management Service
- ☐ Systems Manager Parameter Store

Exam Preparation Guide

Question Paper based Discussion







Contact Us

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