

# **Modules of AWS Solutions Architect SAA**

## **C02**

### **Module -1 Introduction to AWS**

- Introduction to Cloud Computing
- Introduction to AWS

### **Module 2 – IAM (Identity and Access Management)**

- Creating IAM users and groups
- Creating IAM groups and assigning group level permissions
- Creating IAM Roles
- Accessing Bucket via single user restrict
- Read/Write permissions to users and groups
- Multifactor Authentication using Microsoft Authentication

### **Module 3 - EC2 (Elastic Cloud Computing)**

- Creating Microsoft and Linux machines in particular region
- Accessing instances with RDP & SSH
- Configuring security groups
- Creating instances with multiple NIC cards
- Creating tags for consistency
- Creating EC2 key pair
- Connecting EC2 Linux machine using p-agent
- Creating EBS Volume
- Creating EBS Snapshots
- Migration of instances (region to region)
- Migration of Instance (One account to another account)

### **Module 4 – VPC (Virtual Private Cloud)**

- Understanding sub netting concept
- Managing default subnet, route table
- Creating new VPC, Subnet, Route Table, Internet gateways
- Elastic IP Address
- Connection of Instances in public subnet
- Accessing of instances private subnet
- Configuring Network Connections between two VPCs Peering Concept
- Configuring network connection VPC
- Network Access Control List (ACL)
- Network Address Translation (NAT) instance and NAT Gateways

## **Module 5 – Amazon Simple Storage Service (S3)**

- Creating Bucket in S3
- Versioning in S3
- Making Bucket Public
- Hosting Static Website in S3 Bucket
- Accessing S3 Bucket through EC2 (Endpoint)
- Accessing S3 via CLI
- Understanding ROLE Switch in S3
- Creating Bucket in S3
- Versioning in S3

## **Module 6 – Domain Naming System (DNS)**

- Introduction of DNS
- Creating Active Directory (AD Services)
- Joining Member to AD
- Creating EC2 with Dynamic Host Configuration Protocol (DHCP) option

## **Module 7 – Route 53**

- Registering domain on Route 53
- Registering domain from third party domain provider
- Web Hosting in Microsoft Server
- Web Hosting in Linux
- Understanding hosted zones record sets
- Publishing static website in S3 with domain name
- Merging ELB with route 53

## **Module 8 – ELB, ACW, AUTO SCALING**

- Elastic Load Balancing
- Configuring web servers using ELB
- Cloud watch
- Understanding Monitoring
- Auto Scaling Plans (Merging with ELB and Cloud Watch)

## **Module 9 – Cloud Formation (Infra Oriented)**

- Introduction
- Creating Cloud Formation template

## **Module 10 – Application services**

- Introduction
- Amazon Simple Database Service (AMAZON SQS)
- Amazon Simple Workflow Service (AMAZON SWF)
- Amazon Notification Service (AMAZON SNS)

## **Module 11 – DATABASE (Infra Oriented)**

- Amazon RedShift
- Amazon Dynamo DB
- Amazon RDS

## **Module 12 – LAMBDA (Infra Oriented)**

- Overview of LAMBDA
- Triggering any function using LAMBDA (development knowledge required)