

# **AWS Solution Architect**

## **Cloud Computing Platform**



### **AWS Overview**

- Description of AWS
- Cloud Computing
- Overview of AWS Products and Services

### **Identity and Access Management (IAM)**

- IAM Overview
- IAM Policies
- IAM Users
- IAM Groups
- IAM Roles

### **Amazon Virtual Private Cloud (VPC)**

- Amazon VPC Overview
- IP Addresses
- Internet Gateway
- Subnets
- Route Tables
- Launch Instance into VPC
- Assign Elastic IP Address to VPC Instances
- Connect VPC directly to the Internet via public subnets  
private subnets

### **Elastic Cloud Compute- EC2**

- Amazon EC2 Overview
- EC2 Instance Types
- Amazon Elastic Block Store (EBS)
- Elastic IP Addresses
- Setting Up with Amazon EC2
- Getting Started with Amazon EC2 Linux Instances
- Amazon EC2 Key Pairs
- Accessing Amazon EC2

### **Security Group Basics**

- Default Security Group for VPC
- Security Group Rules
- Inbound rules
- Outbound rules



- Working with Security Groups
- Modifying the Default Security Group
- Creating a Security Group
- Adding, Removing, and Updating Rules
- Deleting a Security Group

## **Network ACL Basics**

- Network ACL Rules
- Default Network ACL
- Custom Network ACL
- Determining Network ACL Associations
- Creating a Network ACL
- Adding and Deleting Rules
- Associating a Subnet with a Network ACL
- Disassociating a Network ACL from a Subnet
- Deleting a Network ACL

## **Amazon Machine Image (AMI)**

- Using an AMI
- Creating Your Own AMI
- AMI Types
- Launch Permissions

## **Amazon Simple Storage Service (S3)**

- Amazon S3 Overview
- S3 Buckets
- Version Control
- Amazon S3 Lifecycle Management
- Import/Export
- Amazon S3 Costs
- Create a Bucket
- Add an Object to a Bucket
- View an Object
- Move an Object
- Delete an Object and Bucket

## **Route53**

- Amazon Route 53 Overview
- Amazon Route 53 and DNS
- Route 53 costs and prices
- Supported Record Types



## Databases

- Databases Overview
- Amazon Relational Database Service (RDS)
- Amazon DynamoDB
- Provisioning RDS Mysql Database

## Simple Notification Service-SNS

- Overview of SNS
- Adding Subscriptions
- Publishing to the topic

## Basic Networking Concepts

**NOTE:-To learn AWS each student is required to have a credit or debit card. It is required to create Free Tier account to learn AWS.**