AWS Solution Architect-Associate

1. **Introduction to Cloud Computing:** In this module, you will learn what Cloud Computing is and what are the different models of Cloud Computing along with the key differentiators of different models. We will also introduce you to virtual world of AWS along with AWS key vocabulary, services and concepts.
   - Introduction to Cloud Computing
   - AWS Architecture
   - AWS Management Console
   - Setting up of the AWS Account
2. **Amazon EC2 and Amazon EBS:** In this module, you will learn about the introduction to compute offering from AWS called EC2. We will cover different instance types and Amazon AMIs. A demo on launching an AWS EC2 instance, connect with an instance and hosting a website on AWS EC2 instance. We will also cover EBS storage Architecture (AWS persistent storage) and the concepts of AMI and snapshots.
   - Amazon EC2
   - Amazon EBS
   - Demo of AMI Creation
   - Backup, Restore
3. **Amazon Storage Services S3 (Simple Storage Services):** In this module, you will learn how AWS provides various kinds of scalable storage services. In this module, we will cover different storage services like S3, Glacier, Versioning, and learn how to host a static website on AWS.
4. **Cloud Watch & SNS:** In this modules, you will learn how to monitoring AWS resources and setting up alerts and notifications for AWS resources and AWS usage billing with AWS CloudWatch and SNS.
   - Amazon Cloud Watch
   - SNS - Simple Notification Services
5. **Scaling and Load Distribution in AWS:** In this module, you will learn about 'Scaling' and 'Load distribution techniques' in AWS. This module also includes a demo of Load distribution & Scaling your resources horizontally based on time or activity.
   - Amazon Auto Scaling & ELB
6. **AWS VPC & Route 53:** In this module, you will learn introduction to Amazon Virtual Private Cloud. We will cover how you can make public and private subnet with AWS VPC. A demo on creating VPC. We will also cover overview of AWS Route 53.
   - Amazon VPC with subnets
   - Gateways
   - Route Tables
   - Amazon Route 53 overview
7. **Identity and Access Management Techniques (IAM):** In this module, you will learn how to achieve distribution of access control with AWS using IAM.
   - Amazon IAM - add users to groups, manage passwords, log in with IAM -created users.
8. **Amazon Relational Database Service (RDS):** In this module, you will learn how to manage relational database service of AWS called RDS.

- Amazon RDS
9. **Multiple AWS Services and Managing the Resources' Lifecycle:** In this module, you will get an overview of multiple AWS services. We will talk about how do you manage life cycle of AWS resources

and follow the DevOps model in AWS. We will also talk about notification and email service of AWS along with Content Distribution Service in this module.

- AWS CloudFront, Cloud Trail, SQS
- Overview of AWS Products such as Elastic Beanstalk, AWS DynamoDB Cloud Formation, SES.
10. **AWS Architecture and Design:** In this module, you will cover various architecture and design aspects of AWS. We will also cover the cost planning and optimization

Techniques along with AWS security best practices, High Availability (HA) and   Disaster Recovery (DR) in AWS.

- AWS Backup and DR Setup
- AWS High Availability Design
- AWS Best Practices (Cost +Security)
- AWS Calculator & Consolidated Billing
11. **Migrating to Cloud & AWS:** In this module, you will learn how to migrate to cloud.

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