

AMAZON WEB SERVICES

Solution Architect (Associate
Level)

DETAILED COURSE CONTENT

Duration: 25-30 Hours



Note:

Each lecture will be followed by a hands-on demo/activity
wherever applicable

Module 1

- ▶ Introduction to Cloud Computing
- ▶ Introduction to AWS & Azure Cloud Computing
- ▶ Understanding differences between On-premises and Cloud architecture

Module 2

- ▶ Understanding networking in virtual world and subnetting
- ▶ Introduction to Amazon Webservices Services Overview and AWS Infrastructure overview
- ▶ Preparatory Topics Virtualization, Networking and Storage concepts
- ▶ AWS Management Console and AWS Account

Module 3

- ▶ Amazon EC2 Instance types, families, generations
- ▶ Amazon EBS Magnetic, SSD, Provisioned IOPS
- ▶ Amazon VPC Subnets, ACLs, Routing rules, Security Groups
- ▶ Hands-on activity: Creating a VPC, Creating instances (VMs) on EC2 and Configuring all necessary services, attaching EBS volumes, Elastic IPs, etc.

Module 4

- ▶ Overview Object Storage, file shares and their use cases
- ▶ Amazon S3, Glacier, (File Share Service), CloudFront & Snowball
- ▶ Amazon Cloudwatch Monitoring service
- ▶ Hands-on activity: Creating S3 buckets, putting and getting objects from S3, hosting a static website on S3

Module 5

- ▶ Amazon NLB and ALB.
- ▶ Amazon Auto-scaling Launch Configurations, Auto-scaling Policies
- ▶ Hands-on activity configuration of NLB, ALB, auto-scaling rules and using them to automatically scale EC2 instances.

Module 6

- ▶ AWS Database services overview RDS, DynamoDB, Elasticache, Redshift
- ▶ Hands-on activity creating RDS instances, configuring Multi-AZ failover, accessing a database hosted on RDS, DynamoDB using API gateway & Lambda.
- ▶ AWS IAM overview
- ▶ Configuring IAM users, groups and policies Secret Keys and API Access

Module 7

- ▶ Understand hybrid cloud environment.
- ▶ Connectivity options between on-premises and cloud.
- ▶ Creating site to site IP-Sec connectivity.
- ▶ Route configuration in hybrid environment.
- ▶ Create connectivity between On-prem and cloud applications.

Module 8

- ▶ Brief introduction to Infrastructure as Code methodology
- ▶ AWS Services Overview Cloudformation, OpsWorks and ElasticBeanstalk
- ▶ Fundamentals of Cloudformation templates
- ▶ Hands-on activity creating and working with cloudformation templates and deploying a Stack using them.

Module 9

- ▶ AWS Services Overview Application Services (SES, SNS, SQS, etc)
- ▶ Architecting with AWS Design guidelines and best practices
- ▶ High Availability Design, Backup and DR
- ▶ Cost Estimation using Simple Monthly Calculator

Module 10

- ▶ Understanding Orchestration & Automation
- ▶ Introduction to Chef, Puppet and Ansible
- ▶ Install & Configuring Puppet application
- ▶ Testing configuration automation using puppet

Module 11

- ▶ Introduction to Packer & Terraform
- ▶ AWS Infra Automation using Terraform
- ▶ Automate image building with Packer
- ▶ Deploy infrastructure with Packer & Terraform

Module 12

- ▶ Introduction to Docker
- ▶ Installing Docker and building images
- ▶ Understanding AWS Elastic Container Services
- ▶ Deploy container applications on AWS ECS

Module 13

- ▶ Introduction to Git and Github
- ▶ Introduction to Docker & Container Architecture
- ▶ Migration best practices from On-prem to Cloud
- ▶ Understanding about Code Deploy, Code Pipeline and Codecommit

Module 14

- ▶ Overview of AWS Data Analytics
- ▶ Understanding EMR, CloudSearch, ElasticSearch
- ▶ Understanding ETL on Athena & Glue

THANKS!

For more details, you can contact us



91 988 502 2027



info@svrtechnologies.com