AMAZON WEBSERVICES Solution Architect (Associate

DETAILED COURSE CONTENT



Duration: 25-30 Hours



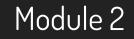
Each lecture will be followed by a hands-on demo/activity wherever applicable





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





4

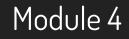
- Understanding networking in virtual world and subnetting
- Introduction to Amazon Webservices Services Overview and AWS Infrastructure overview
- Preparatory Topics Virtualization, Networking and Storage concepts
- AWS Management Console and AWS Account





- 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.





6

- 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



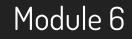


7

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.





- 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



- 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.



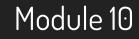


- Brief introduction to Infrastructure as Code methodology
- AWS Services Overview Cloudformation, OpsWorks and ElasticBeanstalk
- Fundamentals of Cloudformation templates
- Hands-on activity creating and working with cloudformation templates and deploying a Stack using them.



- 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





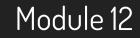
- Understanding Orchestration & Automation
- Introduction to Chef, Puppet and Ansible
- Install & Configuring Puppet application
- Testing configuration automation using puppet





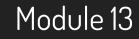
- Introduction to Packer & Terraform
- AWS Infra Automation using Terraform
- Automate image building with Packer
- Deploy infrastructure with Packer & Terraform





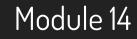
- Introduction to Docker
- Installing Docker and building images
- Understanding AWS Elastic Container Services
- Deploy container applications on AWS ECS





- 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



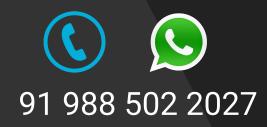


- Overview of AWS Data Analytics
- Understanding EMR, CloudSearch, ElasticSearch
- Understanding ETL on Athena & Glue



THANKS!

For more details, you can contact us





info@svrtechnologies.com