

AWS Certified Solution Architect – Associate Course Content :-

1. Introduction to Cloud Computing

- Why Cloud computing?
- Benefits of Cloud computing

2. Introduction to AWS

- Setting up of AWS account
- AWS free tier- Limits and usages
- Introduction to AWS Management Console

3. Elastic compute cloud Essentials

- Regions and availability zones
- Amazon Machine Images
- Pricing Model in EC2 Instances
- Deciding between on-demand instances, spot instances, reserved instances, scheduled instances& dedicated Hosts.
- EC2 Reserved instances Market Place

4. EC2 Instances

- Building EC2 windows & Linux Instances
- Working with Security Groups
- Assigning Elastic IP's
- Creating your own AMI
- Placement Groups

5. Elastic Block Store (EBS)

- Creating and deleting Volumes
- Attaching and detaching volumes and increasing the volume size
- Mounting and un-mounting the attached volume
- Creating snapshots

6. Elastic Load Balancer

- Creating a Load Balancer
- Internal and External Load Balancer
- Security groups for the load Balancer
- Configure health check for the Load Balancer

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- Adding multiple instance for the Load Balancer
- Cross zone Load Balancing
- Connection Draining

7. Auto Scaling

- What is Auto Scaling
- Auto Scaling components
- Creation of Launch Configuration
- Configuration of Auto scaling policies based on the Load on EC2 Instance
- Advantages of Auto Scaling with Elastic Load Balancer (ELB)

8. Simple Storage Service (S3)

- Creating and deleting buckets
- Adding objects into buckets
- Getting objects and deleting objects
- Creation of Static website using S3 Storage
- Working with permissions of S3
- Life-cycles in S3

9. Glacier Storage

- Creating Vaults
- Accessing the Glacier Vault using tools
- Using Glacier for backups
- Retrieval period

10. Identity and Access Management

- Creation of User accounts in AWS
- Setting up Multi factor Authentication
- Roles in IAM
- Groups in IAM
- Delegation of permission for users
- Creation of custom polices for delegation

11. Virtual Private Cloud (VPC)

- Creating a New VPC
- Subnets & Route Tables
- ACL & Security Groups
- Creation of Internet Gateway
- Connecting to instances in the gateway

- VPN & Direct Connect

12. Rational Database Service (RDS)

- Discussion on types of Databases available in AWS
- Creating Database Engine
- Configuring Database Engine
- Setting up automatic backup's

13. Cloud Watch

- Monitoring the AWS Service Health Dashboard
- Debugging Cloud related issues
- Getting Statistics for specific EC2 Instance
- Metrics for other AWS services and related namespaces
- Setting up notifications

14. Simple Notification Services (SNS)

- Creation of a topic
- Subscribing to topic via Email
- Setting notification for EC2 instance changes

15. Elastic Beanstalk

- Creation of Web-App using Elastic Beanstalk
- Building a sample application using Beanstalk
- Modifying the properties of the deployment.

16. Route53

- What is DNS and Route53
- Understanding DNS
- What are different Route53 policies

17. Cloud Formation

- Building AWS infrastructure as a code
- Utilization of sample templates
- Introduction to JSON

18. Cloud Front

- How Cloud Front delivers the content
- Working with distributions
- Working with objects

19. AWS Lambda Service

- Building Lambda functions