

AWS Certified Solution Architect – Associate Course Content :-

1. LINUX Basics:

- Linux File system structure
- Basic Linux commands
- Changing file permissions and ownership
- Types of links soft and hard link
- User Management
- Start and stop services
- Find and kill the process with id and name
- Package installation using RPM and YUM

2. Introduction to Cloud Computing

- Why Cloud computing?
- Benefits of Cloud computing

3. Introduction to AWS

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

4. 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

5. EC2 Instances

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

6. Elastic Block Store (EBS)

- Creating and deleting Volumes

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

7. 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
- Adding multiple instance for the Load Balancer
- Cross zone Load Balancing
- Connection Draining

8. 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)

9. 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

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. AWS Lambda Service

- Building Lambda functions

19. Ansible for configuration management

- Installation and Configuration of Ansible
- Ansible Documentation
- Running Ansible commands
- Playbook structure with YAML
- Running Adhoc Commands
- Manage variables
- Manage task control, handlers, and tags in Ansible playbooks
- Implement roles Create and manage roles
- Configure complex playbooks

20. Docker– Containers:

- Introduction Architecture
- Installation
- Docker Hub
- Custom images
- Docker Networking
- Docker Compose