Contact- +91-9243484138
Trainer- Amit Kumar

- Having 15 Years of IT Industry Experience.
- AWS and GCP cloud certified.

AWS Solution Architect-Associate (AWS SAA-C03)

Introduction - A certified AWS Solutions Architect is a cloud computing expert who designs the architecture of an organization's cloud assets and plans implementation of the design. Their in-depth knowledge and understanding used to develop technical cloud strategy due to which they are much in demand. This course will help people to start their cloud journey as cloud-engineer or cloud architect.

Course Content:

1. **Core Elements of Cloud Architecture**
    1. Introduction to Cloud Computing
    2. Crux of Virtualization
    3. Key Concepts of Virtualization
    4. Basics of Networking and Network Devices.
    5. Basics of Servers and Server OS

2. **Fundamental Pillars of Cloud Computing**
    1. Private Cloud
    2. Public Cloud
    3. Private Cloud vs. Public Cloud
    4. Brief Introduction of Infrastructure as a Service (IaaS)
    5. Brief Introduction of Platform as a Service (PaaS)
    6. Brief Introduction of Software as a Service (SaaS)

3. **Compute Theory-Lab**
    1. How to create Free Tier account on AWS.
    2. Overview of AWS Console.
    3. AWS Compute and its types.
    4. Create a EC2 windows machine and validate the accessibility.
    5. Create a EC2 linux machine and validate the accessibility.
    6. Extend disk drives in EC2 for windows and for 30GB and validate.
    7. Create an AMI and test the AMI.
    8. Create a snapshot for EC2 instance and terminate the instance and do the restoration.
    9. Move the snapshot from one region to another region.
    10. Enable termination protection and validate the EC2 by deleting the machine.
    11. Configure EC2 linux machine and install apache configuration.
    12. Upgrade EC2 memory and storage.
    13. How to Upgrade or change instance type in stopped state.

4. **Networking Theory-Lab**
    1. AWS VPC, Subnet, Firewalls, Gateway
    2. Create a VPC, create a subnet, create internet gateway and routing table.
    3. Configure EC2 machines with the above created networks and check the Connectivity.
    4. Configure elastic IP and assign this to instance and test the connectivity.
    5. Configure a public subnet and private subnet and configure NAT Gateway and test the internet traffic for private network.
    6. Configure one VPC by XYZ name, configure one more VPC (ABC name) do the peering between two VPC.
    7. Configure VPC to VPC in Same Region and VPC to VPC in different Region Connectivity Test.
    8. How to Configure NAT instance and access private instances.

5. **Storage Theory-Lab**
    1. Storage and its types available in AWS
    2. Create a S3 bucket and put some data and try to access.
    3. Create S3 bucket enable versioning and test for deleting the files and restoring through it.
    4. Create EFS and mount to linux machine.
    5. Configure Life cycle from S3 to glacier.
    6. How to create Presign URL for S3 Object.
    7. CrossRegion Replication.
    8. Create S3 Glacier and upload some data on it.

6. **Databases Theory- Lab**
    1. Configure My SQL and Test
    2. Configure Dynamo DB and Test

7. **Load Balancer Theory-Lab**
    1. Create a EC2 two windows machines and install IIS and host a HTML File and check the website connectivity.
    2. Create a EC2 two linux machine and install apache and host HTML File and check the website.
    3. Create an application load balancer and test.
    4. Create a Network load balancer and test the load balancing.

8. **Route 53 Lab**
    1. If you have a domain purchased in godaddy or any provider, then create a hosted zone in route 53 andcreate a record in route 53.
    2. Create a S3 Bucket and host a Static website using Route 53.
    3. Configure alias creation in route 53.

9. **Security Lab**
    1. Configure IAM users and validate the connectivity from dashboard.
    2. Configure policy and attach policy to users.
    3. Configure groups and assign permission to groups.
    4. Configure different permissions to different users and do the testing.
    5. Configure google authenticator in mobile and validate multifactor authentication

10. **Cloudwatch Lab**
    1. How to setup alarm in Cloudwatch for different Metrics.
    2. How to Configure Cloudwatch Events.
    3. How to check RAM utilization of a Server using Cloudwatch.

11. **Cloudfront**
    1. Create a sample website and configure cloudfront distribution.
    2. Configure GEO restrictions in cloudfront.

12. **Advanced Topics with Theory-Labs (High Level):**
    - **Elastic Beanstalk, Cloudformation**
    - **AWS Lightsail, Lambda**
    - **Elastic Container Service, AWS KMS**
    - **Cloudtrail, Elasticache, Snowball.**

13. **Three Tier Architecture Project. [Helpful for Interviews]**

KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:

- Special focus on non-technical, experienced, or Fresher candidates.
- Resume Preparation for Fresher's and Experienced Both.
- Provides Recording of each live session along with notes.
- Interview Cracking tips during live sessions