



# Technical Guftgu

(Established under Ministry of Micro, Small and Medium Enterprises, Govt. of India)

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- ✓ Certificate provided
- ✓ Practical & Demos
- ✓ In Hindi/Urdu
- ✓ Expert Trainers

## 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 mean they are much in demand.

**Pre-requisite** — Basic knowledge of Computer Networking.

**Note:** This Course is Specially Designed for Non-technical Candidates and Delivered by Bhupinder Rajput Sir.

### Course Content:

#### Introduction to Cloud Computing (Theory)

##### 1. Core Elements of Cloud Architecture

1. Crux of Virtualization
2. Key Concepts of Virtualization
3. Basics of Networking
4. 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)

#### Compute Lab

1. Create a EC2 windows machine and validate the accessibility.
2. Create a EC2 linux machine and validate the accessibility.
3. Extend disk drives in EC2 for windows and for 30GB and validate.
4. Create a AMI and test the AMI.
5. Create a snapshot for EC2 instance and terminate the instance and do the restoration.
6. Move the snapshot from one region to another region.
7. Enable termination protection and validate the EC2 by deleting the machine.
8. Configure EC2 linux machine and install apache configuration.
9. Upgrade EC2 memory and storage.
10. How to automate EC2 Backup using Lifecycle Manager.
11. EC2 Creation Using Placement Groups.
12. Creating EC2 using AWS CLI.
13. How to Upgrade or change instance type in stopped state.

#### Networking Lab

1. Create a VPC, Create a subnet, create internet gateway and routing table.
2. Configure elastic IP and assign this to instance and test the connectivity.
3. Configure a public subnet and private subnet and configure NAT Gateway and test the internet traffic for private network.
4. Configure VPC to VPC Peering in Same Region and VPC to VPC in different Region Connectivity Test.

5. How to Configure Network access Control List and Set priorities.
6. Creating VPC using AWS CLI.

#### **Storage Lab**

1. Create a S3 bucket and put some data and try to access.
2. Create S3 bucket enable versioning and test for deleting the files and restoring through it.
3. Managing S3 using aws cli.
4. Managing S3 Bucket Policies for granular access.
5. S3 Access logs and Transfer Acceleration.
6. Configure Life cycle from S3 to glacier.
7. How to create Presign URL for S3 Object.
8. EBS types and its demo.
9. Create S3 Glacier and upload some data on it.
10. Create EFS and mount to linux machine

#### **Databases Lab**

11. Configure My SQL and Test
12. Configure Dynamo DB and Test
13. RDS Import and Export

#### **Load Balancer 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 a application load balancer and test.
4. Create a Network load balancer and test the load balancing.
5. How to Establish a Load Balancer Between Two VPC.

#### **Route 53 Lab**

1. If you have a domain purchased in godaddy or any provider then create a hosted zone in route 53 and create 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.

#### **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

#### **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.

#### **Cloudfront**

1. Create a sample page and configure cloudfront distribution.
2. Configure GEO restrictions in cloudfront.

### **Advanced Topics with Labs :-**

- *Elastic Beanstalk*
- *AWS Lightsail*
- *Elastic Container Service*
- *Cloudtrail*
- *SNS Service*
- *Cloudformation*
- *Lambda*
- *AWS KMS*
- *Transit Gateway*
- *Snowball*

**KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:**

- ✓ *Entire training programme is in Hindi Language for Better understanding.*
- ✓ *Special focus on Non technical and Fresher candidates.*
- ✓ *Resume Preparation for Fresher's and Experienced Both.*
- ✓ *Provides Recording of each live session which you can access from anywhere anytime for One year.*
- ✓ *Interview Cracking tips during live sessions.*
- ✓ *Provide complete notes and books for exam Preparation.*
- ✓ *Provide Latest AWS Exam dumps for AWS SAA-C03 Certification.*

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