



# **AWS SYSOPS & SOLUTION ARCHITECT – ASSOCIATE**

DURATION: 40 HRS

COURSE FEE: 15,000

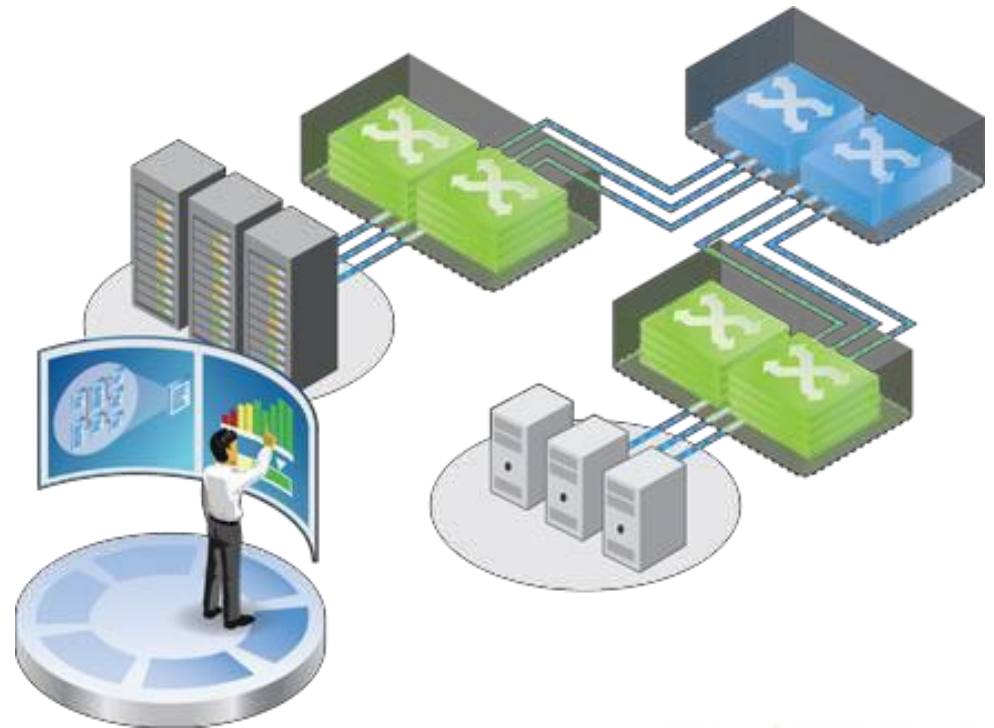
# Course Objective:

- ▶ To design Cloud Architecture.
- ▶ To crack AWS Certification.
- ▶ Additional Weightage to your CV.
- ▶ AWS is available in Accenture, Cognizant, Wipro, TCS, HCL, Infosys, etc...
- ▶ From Fresher's to all Experiences candidates.



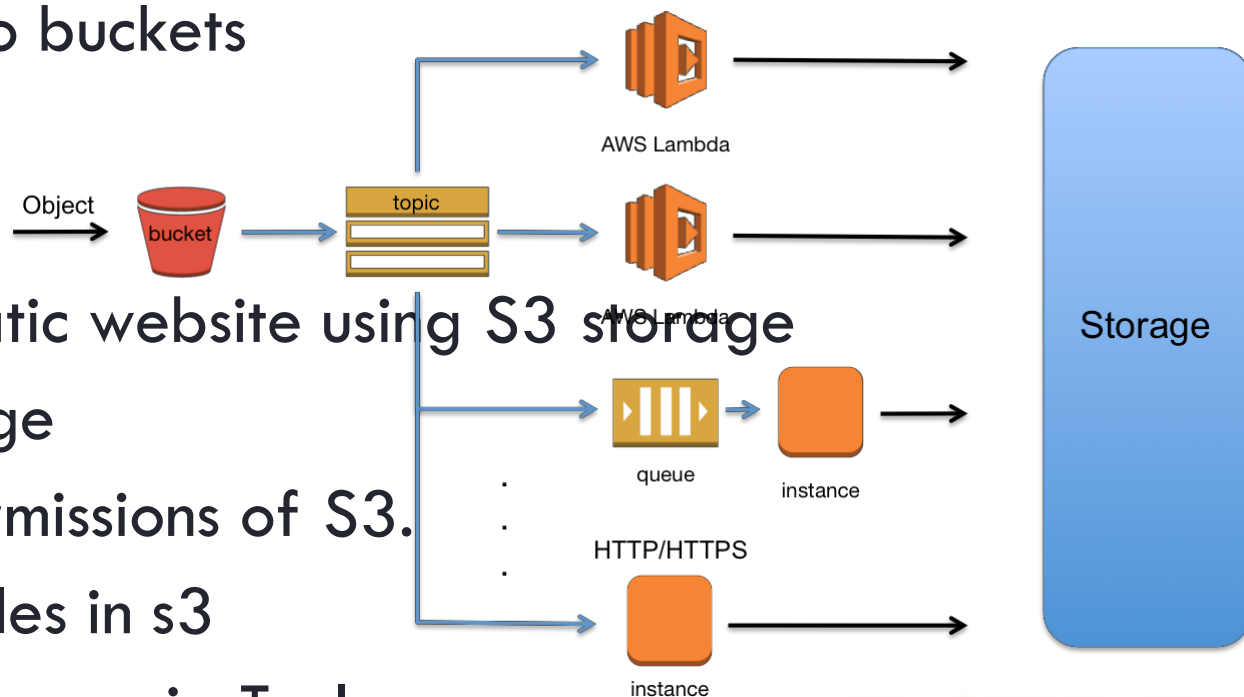
# 1 Introduction to Cloud Computing:

- ▶ Introduction to Cloud and AWS services.
- ▶ AWS History.
- ▶ Private vs Public.
- ▶ IaaS vs SaaS vs PaaS.
- ▶ Scope for AWS.
- ▶ Features in AWS.



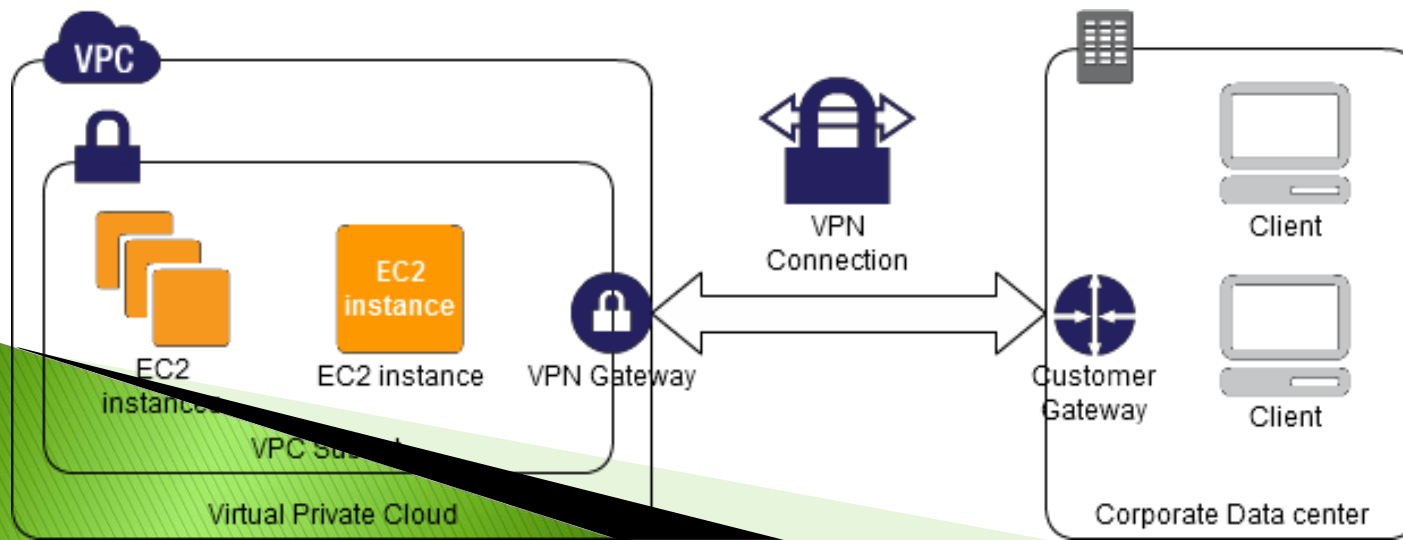
# 2 Simple Storage Services (S3)

- ▶ Creating and deleting buckets
- ▶ Adding objects to buckets
- ▶ Getting objects
- ▶ Deleting objects
- ▶ Creation of a static website using S3 storage
- ▶ Uses of S3 storage
- ▶ Working with Permissions of S3.
- ▶ Discussing lifecycles in s3
- ▶ Accessing S3 storage via Tools



# 3 Elastic Compute Cloud (EC2) Essentials

- ▶ Introduction to EC2
- ▶ Launching EC2 Server
- ▶ Elastic Block Store [EBS]
- ▶ Elastic IP creation
- ▶ Amazon Machine Image [AMI]
- ▶ Snapshots creation from Volume

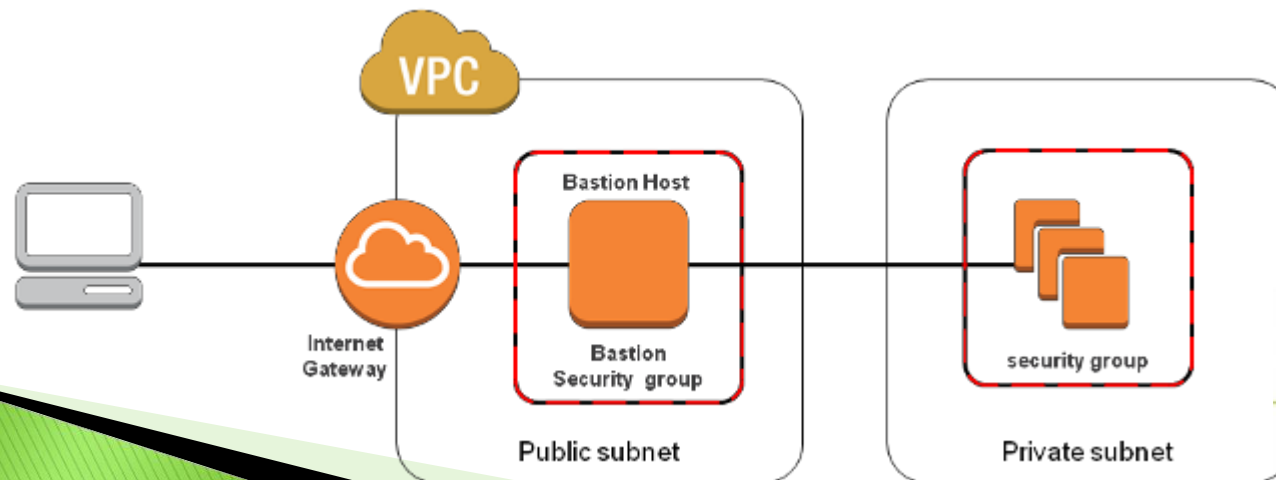


# 4 Auto Scaling & Availability

- ▶ What is auto scaling?
- ▶ AutoScaling components
- ▶ Benefits of Autoscaling
- ▶ Creation of launch configuration
- ▶ Configuration of Autoscaling policies based on the Load on EC2 instances.
- ▶ Advantages of using Auto scaling with Elastic Load balancer (ELB).

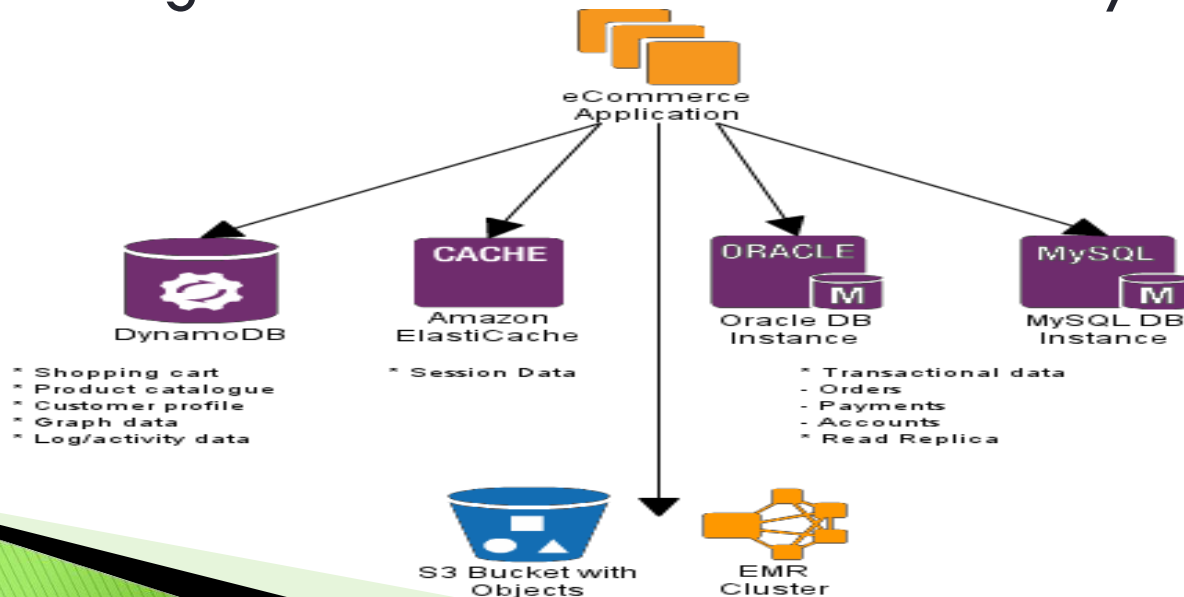
# 5 Virtual Private Cloud (VPC)

- ▶ Different types of networks that can be setup in AWS
- ▶ Creating a new VPC
- ▶ ACL & Security Groups
- ▶ Creation of Internet Gateway
- ▶ Connecting to instances in the gateway



# 6 Relational Database Service (RDS)

- ▶ Selecting the Engine
- ▶ Configuring the Database Engine
- ▶ Creating your Database
- ▶ Setting up automatic backups
- ▶ Authorizing access to the DB via DB Security Groups





# 7 Identity & Access Management [IAM]

- ▶ Creation of user accounts in AWS
- ▶ Setting up multi factor Authentication (MFA)
- ▶ Roles in IAM
- ▶ Groups in IAM
- ▶ Delegation of permissions for users
- ▶ Creation of custom policies for delegation
- ▶ Account settings



# 8 Cloud Formation

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



# 9 AWS Monitoring Services

## Cloud watch

- ▶ Debugging cloud related issues
- ▶ Monitoring the AWS Service Health Dashboard
- ▶ Monitoring with Cloud watch
- ▶ Getting statistics for a specific EC2 instance
- ▶ Getting aggregated statistics
- ▶ Metrics for other AWS Services and related namespaces
- ▶ Setting up notifications



# 10 AWS Content Delivery Services

## **Simple Notification Services (SNS)**

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



## **Simple Queue Service (SQS)**

- ▶ Creation of a queue
- ▶ Sending messages to the queue
- ▶ Setting SNS to SQS
- ▶ Retrieving messages from SQS



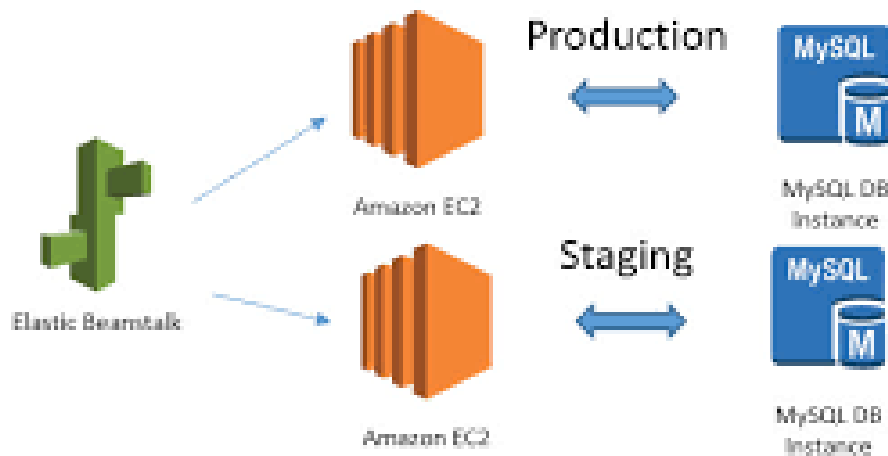
## **Simple Email Services (SES)**

- ▶ Setting up email domain
- ▶ Limits of SES
- ▶ Test Email setup



# 11 Elastic Beanstalk

- ▶ Creation of WebApp using Elastic Beanstalk
- ▶ Building a sample application using Beanstalk
- ▶ Modifying the properties of the deployment.



# 12 Other Services

- ▶ Route53
- ▶ Cloud Front
- ▶ Migration Process
- ▶ Overview of Import & Export
- ▶ DynamoDB



# 13 CERTIFICATION

- ▶ AWS Certified Solution Architect - Associate
- ▶ AWS Certified Solutions Architect - Professional
- ▶ AWS Certified Developer - Associate
- ▶ AWS Certified SysOps Administrator - Associate
- ▶ AWS Certified DevOps Engineer - Professional

