



AWS (Amazon Web Services)


Objectives: • Real-Time Working • Interview Suitable • 70% Exam Coverage

 **Trainer: Mr. Basid [15+ yrs of IT Exp]**

 **Duration: 2 months, Daily 1 hr**

 **Modes: Online & Offline**

 **Fee: (Normal track) 15,000/-**

 **Available Batches: Morning & Evening**

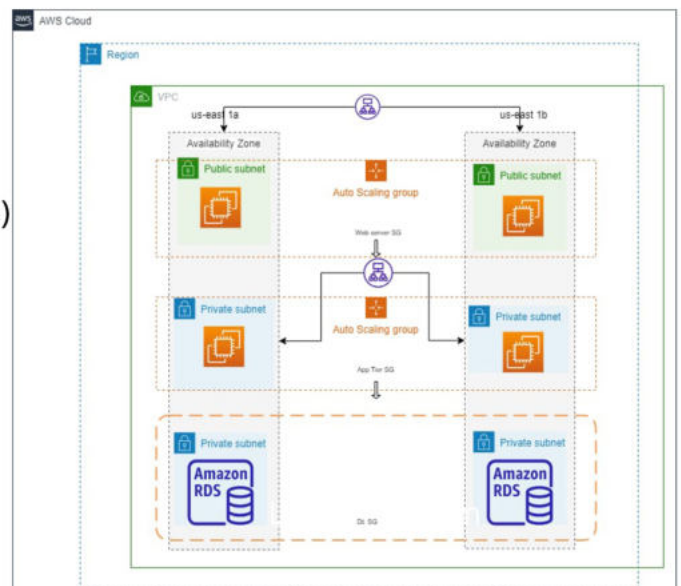


Institute Provides

- In-Depth **Theory & practical** Material
- Complete **Practical Oriented** Training
- **Mock Interviews**
- Daily **Live Class Videos** Shared
- Good Interaction with the Trainers
- **Resume Preparation** Sessions

Component

Introduction of Cloud Computing
 Introduction of AWS Cloud
 AWS Identity and Access Management (IAM)
 Amazon Elastic Compute Cloud (Amazon EC2)
 AWS Elastic Beanstalk, AWS Lambda
 Amazon VPC
 Access EC2 Instance through VPN
 Amazon Route 53
 Elastic Load Balancing
 Amazon Cloud Front
 Amazon EBS, Amazon EFS
 Amazon S3, Amazon S3 Glacier
 Auto Scaling, AWS Cloud Formation
 Amazon Cloud Watch
 Amazon Dynamo DB
 Amazon RDS web platform installer
 Introduction to Amazon Red Shift
 Amazon ElastiCache
 Amazon SNS, Amazon SQS
 AWS Key Management Service (AWS KMS)



Three Tier Architecture Project in AWS

A three-tier architecture in AWS separates an application into Presentation, Application, & Data layers. It uses ELB for traffic distribution, EC2 for logic processing, and a database for data storage.

Real-time and Real-world examples tailored for better learning

Introduction of Cloud Computing

- > What is Cloud Computing?
- > Characteristics of Cloud Computing?
 - Single Tenancy
 - Multi Tenancy
 - Elasticity
 - Telemetry
- > Cloud Service Models
 - IAAS
 - PAAS
 - SAAS
- > Type of Clouds
 - Private Cloud
 - Public Cloud
 - Hybrid Cloud

Introduction of AWS (Amazon Web Services) Cloud

- > History of AWS
- > AWS services information
- > What companies use AWS
- > AWS certifications
- > Creating AWS Free Account
- > Creating EC2 instance

Security, Identity, & Compliance

AWS Identity and Access Management (IAM)

- > What is IAM
- > Creating IAM Users
- > Creating Groups and adding User in to Group
- > Creating Users Policy
- > Adding policy to group
- > Creating group inline policy
- > Providing Billing service access to IAM user
- > Apply an IAM password policy



- > Activate MFA on your root account
- > Creating IAM ROLE
 - Setting Up Cross Account Access
- > Connect Windows ADDS Server to AWS
- > Access Analyzer
- > Organizations

Compute

Amazon Elastic Compute Cloud (Amazon EC2)

- > Understanding Elastic Compute Cloud (EC2)
- > Type Of Instances
- > Create Ec2 Windows instance and access with Windows OS (RDP) & Linux OS (xfreerdp)
- > Configure a web server in windows ec2 instance access sample web site
- > Create Ec2 Linux instance and access with windows OS using putty(ssh) & Linux OS with terminal
- > Linux Apache Mysql PHP (LAMP) Server Deployments
- > Connect windows server AD connector to AWS -> Advance Lab (IAM)
- > Configure web server in Linux ec2 instance access sample web site
- > Retrieve metadata of Linux instance using url
(curl http://169.254.169.254/latest/meta-data/)
- > Create AMI for Ec2
- > Copy AMI in to Another AWS account

AWS Elastic Beanstalk

AWS Lambda

Networking & Content Delivery

Amazon VPC

- > Creating VPC With Single Subnet
- > Launch Ec2 instance using New VPC and Deleting VPC
- > Create public subnet and private subnet
- > Access internet inside private subnet using NAT-Gateway
- > Establish VPC to VPC peering and test connectivity between the two VPC
- > AWS-VPC Peering across Two Region (Cross-Region VPC Peering)



- > AWS Network ACL's
- > AWS VPC Endpoint for S3, Private Access to S3

Access EC2 Instance through VPN

- > Client Side VPN
- > Site to Site VPN

Amazon Route 53

- > What is DNS
- > Route 53 Functions
- > DNS Record Types
- > Route 53 policies

Elastic Load Balancing

- > Application Load Balancer
- > Classic Load Balancer
- > Network Load Balancer
- > Overview of Gateway Load Balancer

Amazon Cloud Front

- > Mini Project with Cloud Front (using route53 and Https Certificate)

Storage

Amazon EBS

Amazon EFS

Amazon S3

- > Naming rules, Sub resources
- > Creating & Managing S3 Bucket
- > S3 Bucket Versioning
- > S3 Creation using CLI
- > S3 Cross Region Replication
- > S3 Life Cycle Management
- > Hosting Static web site using S3
- > Multipart Upload

Amazon S3 Glacier

Management & Governance

- > Auto Scaling
- > AWS Cloud Formation
- > Amazon Cloud Watch

Database

- > Amazon Dynamo DB
- > Amazon RDS web platform installer
- > Introduction Amazon Red shift
- > Amazon ElastiCache

Application Integration

- > Amazon SNS
- > Amazon SQS

Cryptography & PKI

- > AWS Key Management Service (AWS KMS)