COMET CERTIFIED AWS CLOUD

COURSE BROCHURE

Overview

This course teaches IT Professionals to understand basic architectural principles of building on the AWS Cloud, understanding of the AWS global infrastructure, Ability to identify which AWS services meet a given technical requirement, Hands-on experience on compute, networking, storage, and High Availability on AWS services, Hands-on experience with AWS deployment and management of services.

Course Objective

In this course, you will learn to

- Manage AWS services and resources.
- Configure and manage virtual networks on AWS Cloud.
- Deploy and manage virtual machines (VMs).
- Implement and manage storage.
- Configure and manage High Availability.
- Configure and manage Multiple virtual networks.

Audience Profile

This course is for IT Professionals who need manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and just as appropriate.

Prerequisites

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers.

  Understanding of resilience and disaster recovery, including backup and restore operations.

Introduction

- Public Cloud
- AWS Cloud
- Benefits of AWS Cloud

AWS Infrastructure

- AWS Datacenters
- AWS Availability zones
- AWS Regions
- AWS Edge Locations
- AWS Managed and Unmanaged Services

AWS Core Services

- Amazon VPC
- Amazon EC2
- Amazon S3
- Amazon Glacier
- Amazon EBS
- Amazon RDS
- Amazon DynamoDB
- AWS IAM

Design your environment

- AWS Infrastructure patterns
- VPC
- Private and Public Subnet
- IP Addresses
- Security Groups
- Internet Gateway
- NAT Instances

Setting up AWS Cloud Datacenter

- Create AWS Account
- Create VPC
- Configure IP Address
- Configure AZ and Subnet
- Create and Manage AWS Instances
- Configure Windows Instances as Web Server
- Configure Security Groups
- Configure Elastic IP
- Add EBS volume to instance
- Add additional interface

High Availability

- RTO/RPO
- Fault Tolerance
- Scalability
- Recoverability
- On-Prem HA vs HA on AWS

AWS Services and HA

- ELB. Multiple ELB
- Elastic IP
- Amazon Route 53
- Vertical and Horizontal Scaling

Configure ELB

- Configure Subnet and AZ for ELB
- Configure Instances for ELB
- Configure Target Group
- Configure ELB

S3 Bucket

- Create S3 Bucket
- Manage objects in S3
- Configure S3 bucket as Web Server

Autoscaling

- Autoscaling Launch Configuration
- Autoscaling Groups

VPC Peering

Create and Manage VPC Peering

Our Students Testimonials