Microsoft Azure

Duration: 35-40 Hrs

Prerequisites

- Basic Knowledge of Operation & Infrastructure

AWS Course Curriculum

1. **Introduction to Cloud**
   - Define cloud computing.
   - Cloud computing Infrastructure.
   - The requirements that need to be fulfilled to qualify as a cloud service.
   - Cloud service and deployment models.
   - Common misconceptions about cloud computing.
   - Common cloud Implementations.
   - Benefits of Cloud
   - Architecture discussion
   - Lab preparation
2. **Microsoft Azure Basics**
   - Introduction to Azure
   - What is SaaS, PaaS, and IaaS
   - Azure Regions and Data Centers
   - Understanding of Microsoft Azure portal
   - Introduction to all Azure services
   - Windows Azure Subscription
   - Managing Azure Subscriptions and Resources
3. **Deploying and Configuring Infrastructure**
   - Virtual Machine instances
   - Deploying and Managing Virtual Machines (VMs)
   - Configuring and Managing Virtual Networks
   - Azure VM types and Pricing
   - Types of Provisioning
   - Disks & Images
   - Virtual Machine management, automation and scripting
   - Cloud Service and Resource Model Deployment
   - Implementing and Managing Storage
4. **Introduction to Azure Virtual Network and Services**
   - Types of Azure Virtual Network VNET to VNET, point-to-site and site-to-site, Express Route.
   - Creating Virtual Networks in Azure
   - Azure Subnet and IP ranges
   - Endpoints
   - Load Balancing Endpoints
   - Understanding Network ACL and Network Security Group Setting up Private and Public IP
   - Hands-on Lab: Create a VET-to-VNET virtual network
   - Hands-on Lab: Create a point-to-site virtual network
   - Introduction to Azure Traffic Manager
   - Available options in Azure Traffic Manager
   - Understanding of Deployment Traffic Manager
   - Hands-on Lab: Load Balancing using Azure Traffic Manager
5. **Microsoft Azure Storage**
   - Overview of Microsoft Azure Storage
   - Azure Storage Account
   - Azure Storage Blobs
   - Control Access to Storage Blobs and Containers

- Storage Account Replication Techniques
- Type of Azure Storage Account
- Storage Services Blob, Table, queue, File

6. **Module 5: Implement an Azure Active Directory**
   - Active Directory Fundamentals
   - Implement Azure AD Connect
   - Multifactor Authentication
   - Add custom domains
   - Monitor Azure AD
   - Configure single sign-on with SaaS applications
   - Users and Groups Provisioning
   - Configure federation
   - Implement Azure AD integration in web and desktop applications
   - Create an Azure AD B2C Directory
   - Implement B2B collaboration Configure partner users
   - Integrate with applications
   - Azure AD data sync
   - Role-based Access Control
   - ADFS and Azure Access Control Service
   - Hands-on Lab: Authentication On-Premise app using Azure AD
   - Overview and Available features and Media Services
   - Azure Notification Hub Services
7. **Azure SQL Database**
   - Introduction about Azure SQLDifference between SQL server and Azure SQL
   - Advantage and Benefits of SQL database Scaling SQL database
   - Backup and Performance Options Security in Azure
   - SQL Pricing Model
8. **Azure Web Apps**
   - Understanding Web App tiers
   - Understanding of Web Job Pricing , Security, Monitoring
   - Resource Group and Web Hosting Plans in the New Preview portal
   - Supported language
   - Deploying Web App
   - Deployment sources
   - Hand-on Lab: Create, Deploy, Manager
   - Deployment
   - Benefits
   - Roles in Azure Cloud services
   - Web Role and Worker Role
   - Understanding Fault Domain and Upgrade Domain
   - Deployment pipeline
9. **Module 8: Azure Backup and Site Recovery**
   - Azure Vaults
   - Configuring backups
   - Data Protection Manager
   - Azure Site Recovery and Disaster Recovery
   - On Premise Migration using Recovery Services
   - Hands-on Lab: Configure a vault and backup a server from on premise to cloud On-premise to on premise On-premise to Azure

Preparation for Azure Certifications

- **Doubts clarification session**
- **500+ practice questions, based on exam format**