AZ-103 - Microsoft Certified: Azure Administrator Associate course content.

1. Overview of Azure

Introduction to Microsoft Azure

Benefits of Cloud computing

Types of cloud computing

Azure Data Centres and Services

Azure Subscriptions

Classic Vs Azure Resource Manager

Cloud Service Models (IaaS, PaaS, &SaaS)

Azure Market Place

Azure PowerShell

Azure CLI

2. Azure subscriptions and Resources

Create and Manages Azure subscriptions

Access Control on the subscription

Overview of Azure resource manager

Create and manage Resource groups

move resources across resource groups

3.Azure virtual machines

Deploying virtual machine from Azure portal.

Different ways to create Virtual machine in Azure

Deploy vm's using ARM templates

Virtual machines configuration.

Choosing Right VM configuration.

4.Azure calculator

How to use Azure calculator

Providing cost estimation for Azure services

Dealing with new requirements

5.Azure storage

Types of Azure storage

Types of Storage Accounts

Storage replication in Azure

Managed vs unmanaged storage

Different types of disks in Azure and benefits

Choosing the right storage for different workloads

6.Azure Networking

Overview of Virtual Networks

Creating Virtual networks and subnets

Setup connectivity to Azure resources

Configuring Point to site VPN

Creating Site to site VPN.

Global Vnet Peering

Azure load balancers create and configure

Creating Backend pools and NAT rules in Load balancer

NAT using Azure Load balancer

7. General Administration Tasks in Azure

 Add and remove data disk of the VM

Extending existing disk of the VM

Convert Unmanaged disk to managed disk

Add and modify the Network interface card

Scale up and Scale down of the VM

Taking Snapshot of the disk

Create VM using snapshot

Converting dynamic to Static IP

Using Custom DNS for Azure VM's

8.0 High availability Services

Azure Availability sets

  -Creating AV set

-Use cases and advantages

Azure Availability Zones

  -Creating AV Zones

 -Advantages and use cases

Azure scale sets

  -Create and configure scale sets

  - Enable Autoscaling

 -Advantages and use cases

9. Network security groups

Creating Network security groups

Associating NSG's.

Configuring inbound and outbound rules

Restricting traffic to the Subnet and VM using NSG

10 Azure PaaS services

overview of Azure PaaS Services

Azure cloud services (classic)

Azure App services

Monitoring and securing App services

Restricting traffic to apps using Azure Application Gateway

11.Azure recovery services

Overview of Azure recovery services vault

Configure Backups for Azure VM's

Configure Backups for On premise VM's

Backup schedules and retention policies.

Restore VM from Azure.

Disable Backup and remove Backup data.

12. Azure SQL DB

Creation of Azure SQL DB

Configure and provide access

Login and access through SSMS and configure Jobs

13 Azure Active directory (AAD)

Overview of Azure Active directory

Creating and manage User and groups in AAD

Providing permission to Azure resources

Overview of Azure AD premium.

Configure custom domain in Azure

Integrate on premise AD with Azure AD

Configure Multi factor Authentication

Enable and configure Self-service password reset

14 Azure Monitoring

Monitoring server health status using Azure monitor

Enable monitoring for Azure VM's

Monitoring on-premise servers

Monitor Azure services

Creating and configuring alerts using Azure monitor

15 Troubleshooting steps:

Diagnosis &Troubleshoot VM reachability.

Step by step troubleshooting VM issues.

Different ways of troubleshooting Azure VM issues