

Microsoft Azure AZ-104 Curriculum

Azure Subscriptions & Resource Groups

- Cloud Computing Introduction
- Microsoft Azure Overview
- Services in Microsoft Azure
- Azure Subscriptions
- Management Groups
- Azure Resource Manager
- Azure Portal and Power Shell
- Azure Resource Manager Policies
- Azure Policy Definition Structure
- Resource Management Locks
- Organizing Azure Resources

Hands-On:

- Azure account creation
- Manage subscriptions, billing, and policies
- Configure Management Groups
- Use Portal and Power Shell to deploy and manage resources on Azure
- Create Azure policies

Azure Virtual Networks and Network Security

- Azure Virtual Networks Introduction
- IP Addresses – Public and Private
- Classless Inter-domain Routing (CIDR)
- Subnets
- Network Interface Cards (NICs)
- Network Security Groups (NSGs)
- Network Security Group Rules
- Virtual Network Service Endpoints



+44 (020) 3950 8881



+1 332-600-8899



+91 9581512555



+46 76 441 48 79



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- Service Endpoint Policies
- Azure Load Balancer
- Azure DNS
- Azure Firewall
- Azure Bastion Service

Hands-On:

- Creation & Configuration of Virtual Networks
- Setting up Network Security Groups (NSGs)
- Restrict Network Access to Resources with Service Endpoints
- Implementation of Azure DNS
- Configuration of Azure Firewall
- Deployment of Azure Bastion Service

Overview of Azure Virtual Machines

- Azure Virtual Machines
- Azure Resource Manager VM
- Introduction to ARM Templates
- Creation of Custom Image of Azure VM
- Creation & Managing Image of a Generalized VM
- Creating Image from VM Snapshots
- Creating a Linux Virtual Machine
- Virtual Machine Extensions
- Configuration Management using PowerShell DSC
- Run Custom Scripts using Custom Script Extension
- Azure Kubernetes Service (AKS)
- Azure Container Instances (ACI)
- App Service
- App Service Plans



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Hands-On:

- Creating Windows VMs in the Azure Portal
- Creating Windows VMs with Azure PowerShell
- Creating VMs using ARM Templates
- Deploying custom server images
- Configuring Azure Kubernetes Service (AKS)
- Creating Web App Service

Overview of Azure Storage Services

- Azure Storage
- Azure Storage Replication
- Azure Storage Explorer
- Attaching & Detaching of External Storage Account
- Shared Access Signatures (SAS)
- Attach a Storage Account using SAS
- Azure Blob Storage
- Azure File Storage
- Azure Queue Storage
- Azure Table Storage



Hands-On:

- Creating Azure Storage accounts
- Managing storage using Azure Storage Explorer
- Copying data by using AZCopy
- Secure storage using SAS
- Implementing Blobs and Files storages
- Implementing Table storage

Secure and Manage Azure Storage

- Azure Backup
- Why Use Azure Backup?
- Files and Folder Backup
- Application Backup

- Azure File Share
- Azure File Sync
- Content Delivery Network (CDN)
- How CDN Works?
- Azure Import/Export Service
- Azure Data Box

Hands-On:

- Implementing Azure Backup service
- Creating an Azure File Share
- Implementing Azure File Sync
- Store and access data using Azure CDN service
- Transfer data using Azure Import/Export service

Configure Virtual Machines for High Availability

- Azure Virtual Machine Storage
- Azure Virtual Machine Availability
- Fault and Update Domains
- Azure Load Balancer
- Automatic Scaling of Azure VMs
- VM Scale Sets
- Azure VM Backup
- Azure VM Monitoring with Azure Diagnostics Extension
- Azure Advisor

Hands-On:

- Attach a Managed Data Disk to a Windows VM
- Initialize a New Data Disk
- Configure Azure Load Balancer
- Create a VM Scale Set
- Implement Backup and Restore
- Enable Diagnostic Extension to Monitor Metrics and Logs



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Network Traffic Distribution and Connectivity

- Azure Traffic Manager
- Azure Application Gateway
- Azure Virtual Network Routing
- Azure Virtual Network Connectivity
- Azure VPN Gateway
- BGP with VPN Gateway
- Virtual Network Peering

Hands-On:

- Implement Azure Traffic Manager
- Configure Virtual Network Gateways
- Configure BGP with Azure VPN Gateway
- Implement Virtual Network Peering

Integrate On-premises Network with Azure Virtual Network

- Azure Inter-site VPN Connectivity Methods
- Site-to-Site VPN Gateway Connection
- Point-to-Site VPN Gateway Connection
- VNet-to-VNet Connections
- Azure ExpressRoute
- Azure Virtual WAN
- Azure Network Watcher
- Resource Troubleshooting in Azure Network Watcher

Hands-On:

- Create and Configure Point-to-Site Connection
- Configure Vnet-to-Vnet Connection
- Configure Azure ExpressRoute
- Configure Azure Virtual WAN
- Implement Network Watcher



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Monitoring and Access Management for Cloud Resources

- Overview of Role Based Access Control
- Azure Monitor
- Log Analytics
- Azure Activity Log
- Alerts in Azure Monitor
- Custom roles in Azure
- Provide access to Azure resources by assigning roles
- Manage multiple directories

Hands-On:

- Manage Access using RBAC
- Grant Access for a Group using RBAC
- Configure Activity Log Alerts
- Create a custom role

Manage Azure Active Directory (AD)

- Identity Access Management
- Azure Active Directory
- Multi Factor Authentication
- Self-Service Password Reset
- Azure AD Identity Protection
- Azure AD Conditional Access
- Azure AD Domains and Tenants
- Azure AD Domain Services
- Azure AD Join
- Azure AD Single Sign-On
- Manage Azure AD Objects

Hands-On:

- Configure Self-Service Password Reset
- Implement Azure AD Identity Protection
- Configure Domains and Tenants, Users and Groups
- Enable Azure AD Domain Services



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Implementing and Managing Hybrid Identities

- Hybrid Identity
- Password Hash Synchronization (PHS)
- Pass-through Authentication (PTA)
- Federated Authentication
- Azure AD Seamless Single Sign-On (SSO)
- Azure AD Application Proxy
- Password Write back

Hands-On:

- Implement Password Hash Synchronization and Pass-through Authentication
- Implement App Proxy and Password Write back
- Configure user accounts for Multi-Factor Authentication

KEY FEATURES



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