

AZURE MODULE AZ-104



PROFESSIONAL INDUSTRY TRAINING SYLLABUS

Master networking fundamentals
and build the skills needed to design,
implement, and troubleshoot
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AZURE ADMINISTRATOR

MODULE1- AZURE ARCHITECTURE AND VIRTUAL MACHINE

- Azure Free Trial Account Creation
- Azure Virtual Machine
- Create Windows based Azure VM
- Administrative Task with Azure VM
- How to Delete Azure Resources
- Create Linux Azure VM
- Create your own SSH Keys for Authentication with Azure Linux VM
- High Availability through Availability Zone
- Implementation of Availability Set
- Azure VM SLA with Availability Set & Zone
- Website Hosting on Windows Azure VM
- Azure Virtual Machine Extensions

MODULE 2 –AZURE NETWORKING

- Azure Virtual Network Overview
- How to Create Virtual Network & Subnet
- Private IP Vs Public IP
- Dynamic Assignment Vs Static Assignment
- How to Create a Public IP- Basic Vs Standard SKU
- Security Aspects of Public SKU
- Review of Important Facts about Public IP

MODULE 3 – INTER SITE CONNECTIVITY

- Azure Virtual Network Peering
- Implementation of Virtual Network Peering
- Azure VNet –to
- VNet Connection
- Point to Site(P2S)VPN
- Azure Point to Site Configuration
- System Defined Vs User Defined Route
- Express Route
- Azure Express Route Architecture & Deployment Process

MODULE 4- NETWORK SECURITY

- Network Security Groups(NSG)
- NSG Rule's Conflict Resolution Process
- Restrict Internet Access Using NSG
- NICNSG Options –None ,Basic & Advanced
- Application Security Groups(ASG)
- Deployment of Application Security Groups
- Azure Firewalls
- Block Internet Access using Azure Firewall
- Websites White listing through Azure Firewalls
- Azure Service Endpoints

MODULE 5- AZURE ADMINISTRATION

- Different ways to create resources in Azure
- Azure CLI
- Azure CLI Installation in Linux OS
- Azure Power Shell
- Azure Dashboard
- Azure ARM Templat

MODULE 6- NETWORK TRAFFIC MANAGEMENT

- Azure Load Balancer (Basic SKU)
- Health Probes & Load Balancing Rules
- Standard SKU Load Balancer
- How to add and remove VMs from Load Balancer
- Application Gateways
- Application Gateway Routing Rule Configuration
- Custom Domain Binding with Application Gateway
- Health Probe Configuration with Application Gateway
- SSL Configuration with Application Gateway
- Multi Site Configuration with Application Gateway

MODULE 7- DNS

- DNS
- Azure DNS –Public DNS Zone
- Azure Private DNS Zone

MODULE 8- AZURE STORAGE

- Azure Storage Account
- Azure Storage Account Redundancy –LRS Vs ZRS
- Storage Account Redundancy –Geo –Redundant Storage (GRS)
- Storage Account's Failover Process
- Geo-Zone-Redundant Storage(GZRS)
- Azure Blob Storage
- Blob Storage Operations
- Azure File Share
- Soft Delete & Snapshot of Azure File Share
- Copy Data using A Z Copy
- How to Create ,Attach & Detach Data Disk with VM
- Temporary Storage of Virtual Machine
- How to Create Disk Snapshot
- OS Disk Swap
- Virtual Machine Image Capture

MODULE 9- AZURE FILE SYNC

- Azure File Sync
- Azure File Sync Cloud Tiering
- How to Delete Azure File Sync Resource

MODULE10 –SERVER LESS COMPUTING

- Azure App Services
- Azure App Service Plans
- App Service Plans –Price Calculation & Scaling
- Deployment of App Using FTPS Endpoint

MODULE11 –AZURE BACKUP & RESTORE

- Backup & Restore process of On-Prem Files & Folders in Azure
- Azure File Share Backup & Restore
- Azure Virtual Machine Backup
- Recover VM Disk from Backup
- Restore Files from the Backup
- Restore Virtual Machine

MODULE12 –AZURE MONITOR

- Azure Monitor Overview
- Azure Monitor Alerts
- Azure Log Analytics Workspace
- Connect On -Prem and Other Cloud sasa Source with Workspace
- Diagnostic Settings Configuration for Azure VM
- Diagnostic Setting for Non-Compute Azure Resource
- Deployment of Azure Monitor Agent Using Data Collection Rule
- Benefits of Azure Monitor Agent

MODULE13- AZURE GOVERNANCE

- Azure Management Groups
- Root Management Group & Access Elevation
- How to Create Management Groups and Add Subscription
- Azure Policy
- Azure Policy Assignment for VM Size SKUs Restriction
- Azure Policy Definition
- Create Azure Custom Policy Definitions
- Remediation through Azure Policy

MODULE14- AZURE ACTIVE DIRECTORY

- Active Directory Overview
- Authentication Process with & without Azure AD
- Azure AD Tenant, Directory & Subscription
- Create New Tenant
- Azure AD Users & Groups and Concept of Role Based Access Control (RBAC)
- Custom Domain Binding with Azure AD
- Multi-Factor Authentication(MFA)
- Additional Settings Related to MFA
- Azure AD Connect Overview
- Azure AD Connect Implementation

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THANK YOU!

Thank you for being a part of
this **learning journey**.

Your dedication today
builds the expertise of
tomorrow.



*Keep Learning.
Keep Growing.*



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PRACTICE.
SUCCEED.**



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Stay curious and
keep exploring
new possibilities.



STAY FOCUSED

Consistency today
creates excellence
tomorrow.



KEEP GROWING

Every step forward
brings you closer to
your goals.



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Your hard work
today shapes your
future success.



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