

# Microsoft Azure Administrator Training

(Training leading to global IT Certification - Microsoft Azure Administrator - AZ 104)

**Duration: 35 - 40 hours**

## Course Outcome (CO)

On successful completion of this course, the candidate will gain expertise in implementing, managing and monitoring an organization's Microsoft Azure environment.

## Course content summary

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources
- Configure and manage virtual networking
- Monitor and backup Azure resources

## Course overview

This course provides knowledge and skill required to acquire Azure Administrator Certification.

# Syllabus

## Manage Azure identities and governance

Manage Azure Active Directory (Azure AD) objects

create users and groups



create administrative units  
manage user and group properties  
manage device settings  
perform bulk user updates  
manage guest accounts  
configure Azure AD join  
configure self-service password reset



## **Manage role-based access control (RBAC)**

- create a custom role
- provide access to Azure resources by assigning roles at different scopes
- interpret access assignments

## **Manage subscriptions and governance**

- configure Azure policies
- configure resource locks
- apply and manage tags on resources
- manage resource groups
- manage subscriptions
- manage costs
- configure management groups

## **Implement and manage storage**

### **Secure storage**

- configure network access to storage accounts
- create and configure storage accounts
- generate shared access signature (SAS) tokens
- manage access keys
- configure Azure AD authentication for a storage account
- configure access to Azure Files

### **Manage storage**

- export from Azure job
- import into Azure job
- install and use Azure Storage Explorer
- copy data by using AZCopy
- implement Azure Storage replication
- configure blob object replication

### **Configure Azure files and Azure Blob Storage**

- create an Azure file share
- create and configure Azure File Sync service
- configure Azure Blob Storage
- configure storage tiers
- configure blob lifecycle management



## Deploy and manage Azure compute resources

### Automate deployment of virtual machines (VMs) by using Azure Resource Manager templates

- modify an Azure Resource Manager template
- configure a virtual hard disk (VHD) template
- deploy from a template
- save a deployment as an Azure Resource Manager template
- deploy virtual machine extensions

### Configure VMs

- configure Azure Disk Encryption
- move VMs from one resource group to another
- manage VM sizes
- add data disks
- configure networking
- redeploy VMs
- configure high availability
- deploy and configure scale sets

### Create and configure containers

- configure sizing and scaling for Azure Container Instances
- configure container groups for Azure Container Instances
- configure storage for Azure Kubernetes Service (AKS)
- configure scaling for AKS
- configure network connections for AKS
- upgrade an AKS cluster

### Create and configure Azure App Service

- create an App Service plan
- configure scaling settings in an App Service plan
- create an App Service
- secure an App Service
- configure custom domain names
- configure backup for an App Service
- configure networking settings
- configure deployment settings

## Configure and manage virtual networking



## **Implement and manage virtual networking**

- create and configure virtual networks, including peering
- configure private and public IP addresses
- configure user-defined network routes
- implement subnets
- configure endpoints on subnets
- configure private endpoints
- configure Azure DNS, including custom DNS settings and private or public DNS zones

## **Secure access to virtual networks**

- create security rules
- associate a network security group (NSG) to a subnet or network interface
- evaluate effective security rules
- implement Azure Firewall
- implement Azure Bastion

## **Configure load balancing**

- configure Azure Application Gateway
- configure an internal or public load balancer
- troubleshoot load balancing

## **Monitor and troubleshoot virtual networking**

- monitor on-premises connectivity
- configure and use Azure Monitor for Networks
- use Azure Network Watcher
- troubleshoot external networking
- troubleshoot virtual network connectivity

## **Integrate an on-premises network with an Azure virtual network**

- create and configure Azure VPN Gateway
- create and configure Azure ExpressRoute
- configure Azure Virtual WAN

## **Monitor and back up Azure resources**

### **Monitor resources by using Azure Monitor**

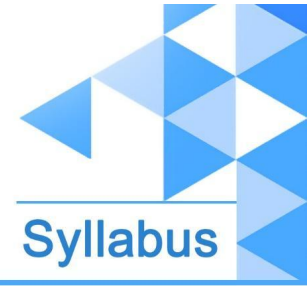
- configure and interpret metrics
- configure Azure Monitor logs



- query and analyze logs
- set up alerts and actions
- configure Application Insights

### **Implement backup and recovery**

- create a Recovery Services vault
- create and configure backup policy
- perform backup and restore operations by using Azure Backup
- perform site-to-site recovery by using Azure Site Recovery
- configure and review backup reports



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