

Exam AZ-103: Microsoft Azure Administrator – Skills Measured

Manage Azure subscriptions and resources (15-20%)

Manage Azure subscriptions

May include but not limited to:

- assign administrator permissions
- configure cost center quotas and tagging
- configure policies at Azure subscription level

Analyze resource utilization and consumption

May include but not limited to:

- configure diagnostic settings on resources
- create baseline for resources
- create and test alerts
- analyze alerts across subscription
- analyze metrics across subscription
- create action groups and action rules
- monitor for unused resources
- monitor spend
- report on spend
- utilize log queries in Azure Monitor
- view alerts in Azure Monitor

Manage resource groups

May include but not limited to:

- use Azure policies for resource groups
- configure resource locks
- configure resource policies
- implement and set tagging on resource groups
- move resources across resource groups
- remove resource groups

Managed role based access control (RBAC)

May include but not limited to:

- create a custom role
- configure access to Azure resources by assigning roles
- configure management access to Azure
- troubleshoot RBAC
- implement RBAC policies
- assign RBAC Roles

Implement and manage storage (15-20%)

Create and configure storage accounts

May include but not limited to:

- configure network access to the storage account
- create and configure storage account
- generate shared access signature
- install and use Azure Storage Explorer
- manage access keys
- monitor activity log by using Monitor Logs
- implement Azure storage replication
- implement Azure AD Authentication

Import and export data to Azure

May include but not limited to:

- create export from Azure job
- create import into Azure job
- use Azure Data Box
- configure and use Azure blob storage
- configure Azure content delivery network (CDN) endpoints
- use Azure Data Factory to transfer data to Azure

Configure Azure files

May include but not limited to:

- create Azure file share
- create Azure File Sync service
- create Azure sync group
- troubleshoot Azure File Sync

Implement Azure backup

May include but not limited to:

- configure and review backup reports
- perform backup operation
- create Recovery Services Vault
- create and configure backup policy
- perform a restore operation

Deploy and manage virtual machines (VMs) (15-20%)

Create and configure a VM for Windows and Linux

May include but not limited to:

- configure high availability
- configure monitoring, networking, storage, and virtual machine size
- deploy and configure scale sets

Automate deployment of VMs

May include but not limited to:

- modify Azure Resource Manager (ARM) template
- configure location of new VMs
- configure VHD template
- deploy from template
- save a deployment as an ARM template
- deploy Windows and Linux VMs

Manage Azure VM

May include but not limited to:

- add data discs
- add network interfaces
- automate configuration management by using PowerShell Desired State Configuration (DSC) and VM Agent by using custom script extensions
- manage VM sizes
- move VMs from one resource group to another
- redeploy VMs
- soft delete for Azure VMs

Manage VM backups

May include but not limited to:

- configure VM backup
- define backup policies
- implement backup policies
- perform VM restore
- Azure Site Recovery

Configure and manage virtual networks (30-35%)

Create connectivity between virtual networks

May include but not limited to:

- create and configure VNET peering
- create and configure VNET to VNET connections
- verify virtual network connectivity
- create virtual network gateway

Implement and manage virtual networking

May include but not limited to:

- configure private and public IP addresses, network routes, network interface, subnets, and virtual network

Configure name resolution

May include but not limited to:

- configure Azure DNS
- configure custom DNS settings
- configure private and public DNS zones

Create and configure a Network Security Group (NSG)

May include but not limited to:

- create security rules
- associate NSG to a subnet or network interface
- identify required ports
- evaluate effective security rules
- implement Application Security Groups

Implement Azure load balancer

May include but not limited to:

- configure internal load balancer
- configure load balancing rules
- configure public load balancer
- troubleshoot load balancing

Monitor and troubleshoot virtual networking

May include but not limited to:

- monitor on-premises connectivity
- use Network resource monitoring
- use Network Watcher
- troubleshoot external networking
- troubleshoot virtual network connectivity

Integrate on premises network with Azure virtual network

May include but not limited to:

- create and configure Azure VPN Gateway
- create and configure site to site VPN
- configure Express Route
- verify on premises connectivity
- troubleshoot on premises connectivity with Azure
- use Azure network adapter

Manage identities (15-20%)

Manage Azure Active Directory (AD)

May include but not limited to:

- add custom domains
- Azure AD Join
- configure self-service password reset
- manage multiple directories

Manage Azure AD objects (users, groups, and devices)

May include but not limited to:

- create users and groups
- manage user and group properties
- manage device settings
- perform bulk user updates
- manage guest accounts

Implement and manage hybrid identities

May include but not limited to:

- install Azure AD Connect, including password hash and pass-through synchronization
- use Azure AD Connect to configure federation with on-premises Active Directory Domain Services (AD DS)
- manage Azure AD Connect
- manage password sync and password writeback

Implement multi-factor authentication (MFA)

May include but not limited to:

- configure user accounts for MFA
- enable MFA by using bulk update
- configure fraud alerts
- configure bypass options
- configure Trusted IPs
- configure verification methods