Microsoft Certified: Azure Administrator Associate – Skills Measured

This document contains the skills measured on the exams associated with this certification. It does not include any upcoming or recent changes that have been made to those skills. For more information about upcoming or recent changes, see the associated exam details page(s).

Manage Azure subscriptions and resources

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

- 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

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)

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

- 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

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

Manage Azure Active Directory (AD)

- 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)

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