

# Exam AZ-100: Microsoft Azure Infrastructure and Deployment

## 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 Azure subscription 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; monitor for unused resources; monitor spend; report on spend; utilize Log Search query functions; view alerts in Log Analytics
  - 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
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## Implement and manage storage (20-25%)

- 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 Log Analytics; implement Azure storage replication
- 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
- 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

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### Deploy and manage virtual machines (VMs) (20-25%)

- 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
- Manage VM backups
  - *May include but not limited to:* Configure VM backup; define backup policies; implement backup policies; perform VM restore

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### Configure and manage virtual networks (20-25%)

- Create connectivity between virtual networks
  - *May include but not limited to:* Create and configure VNET peering; create and configure VNET to VNET; 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

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### Manage identities (15-20%)

- Manage Azure Active Directory (AD)
  - *May include but not limited to:* Add custom domains; configure Azure AD Identity Protection, Azure AD Join, and Enterprise State Roaming; configure self-service

password reset; implement conditional access policies; manage multiple directories; perform an access review

- 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
- Implement and manage hybrid identities
  - *May include but not limited to:* Install and configure Azure AD Connect; configure federation and single sign-on; manage Azure AD Connect; manage password sync and writeback