

Exam AZ-104: Microsoft Azure Administrator

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Learning Profile:

- This course is aimed at those who want to pursue and pass the AZ-104 Azure Administrator Certification.
- Once passed, the Azure Administrator implements, manages and monitors identity, governance, storage, compute and virtual networks in a cloud environment.
- The Azure Administrator will provision, size, monitor and adjust resources as appropriate.

Target Audience:

- Senior technical professionals, Operations team members, System administrators, Infrastructure professionals with exposure to Azure and are interested in passing the Azure AZ-104.
- This course is also for those who are planning for Azure DevOps Professional certification as AZ-104 is a mandatory pre-requisite for AZ-400.

Pre-Requisites:

- Students enrolling to this course should at least have a basic understanding of Virtualization and Cloud Computing.
- Students need to have some background IT Knowledge on Virtual Machines, Networks and other IT infrastructure concepts.
- A free or paid Azure Account

Course Curriculum:

Manage Azure AD objects

- Create users and groups
- Manage user and group properties
- Manage device settings
- Perform bulk user updates
- Manage guest accounts
- Configure Azure AD Join
- Configure self-service password reset
- Azure AD Connect

Manage role-based access control (RBAC)

- create a custom role
- provide access to Azure resources by assigning roles
 - subscriptions

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- resource groups
- resources (VM, disk, etc.)
- interpret access assignments
- manage multiple directories

Manage subscriptions and governance

- Configure Azure policies
- Configure resource locks
- Apply tags
- Create and manage resource groups
 - Move resources
 - Remove RGs
- Manage subscriptions
- Configure Cost Management
- Configure management groups

Manage storage accounts

- Configure network access to storage accounts
- Create and configure storage accounts
- Generate shared access signature
- Manage access keys
- Implement Azure storage replication
- Configure Azure AD Authentication for a storage account

Manage data in Azure Storage

- Export from Azure job
- Import into Azure job
- Install and use Azure Storage Explorer
- Copy data by using AZCopy

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 for Azure blobs

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Configure VMs for high availability and scalability

- Configure high availability
- Deploy and configure scale sets

Automate deployment and configuration of VMs

- Modify Azure Resource Manager (ARM) template
- Configure VHD template
- Deploy from template
- Save a deployment as an ARM template
- Automate configuration management by using custom script extensions

Create and configure VMs

- Configure Azure Disk Encryption
- Move VMs from one resource group to another
- Manage VM sizes
- Add data discs
- Configure networking
- Redeploy VMs

Create and configure containers

- Create and configure Azure Kubernetes Service (AKS)
- Create and configure Azure Container Instances (ACI)

Create and configure Web Apps

- create and configure App Service
- create and configure App Service Plans

Implement and manage virtual networking

- Create and configure VNET peering
- Configure private and public IP addresses, network routes, network interface, subnets, and virtual network

Configure name resolution

- Configure Azure DNS
- Configure custom DNS settings
- Configure a private or public DNS zone

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Secure access to virtual networks

- Create security rules
- Associate an NSG to a subnet or network interface▪ Evaluate effective security rules
- Deploy and configure Azure Firewall
- Deploy and configure Azure Bastion Service

Configure load balancing

- Configure Application Gateway
- Configure an internal load balancer
- Configure load balancing rules
- Configure a public load balancer
- Troubleshoot load balancing

Monitor and troubleshoot virtual networking

- Monitor on-premises connectivity
- Use Network Performance Monitor
- Use 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 VPNs
- Configure ExpressRoute
- Configure Azure Virtual WAN

Monitor resources by using Azure Monitor

- Configure and interpret metrics
 - Analyze metrics across subscriptions
- Configure Log Analytics
 - Implement a Log Analytics workspace
 - Configure diagnostic settings
- Query and analyze logs
 - Create a query
 - Save a query to the dashboard
 - Interpret graphs
- Set up alerts and actions
 - Create and test alerts

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- Create action groups
- View alerts in Azure Monitor
- Analyze alerts across subscriptions
- **Configure Application Insights**

Implement backup and recovery

- **Configure and review backup reports**
- **Perform backup and restore operations by using Azure Backup**
- **Create a Recovery Services Vault**
 - **Use soft delete to recover Azure VMs**
- **Create and configure backup policy**
- **Perform site-to-site recovery by using Azure Site Recovery**



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