

Microsoft Azure Administrator



Course Outline:

EXAM NUMBER: AZ-104

Manage Microsoft Entra users and

- Create users and groups.
- Manage user and group properties.
- Manage licenses in Microsoft Entra ID.
- Manage external users.
- Configure self-service password reset (SSPR).

Manage access to Azure resources

- Manage built-in Azure roles.
- Assign roles at different scopes.
- Interpret access assignments.

Manage Azure subscriptions and governance

- Implement and manage Azure Policy.
- Configure resource locks.
- Apply and manage tags on resources.
- Manage resource groups.
- Manage subscriptions.
- Manage costs by using alerts, budgets, and Azure Advisor recommendations.
- Configure management groups.

Configure access to storage

- Configure Azure Storage firewalls and virtual networks.
- Create and use shared access signature (SAS) tokens.
- Configure stored access policies.
- Manage access keys.
- Configure identity-based access for Azure Files.

Configure and manage storage accounts

- Create and configure storage accounts.
- Configure Azure Storage redundancy.
- Configure object replication.
- Configure storage account encryption.
- Manage data by using Azure Storage Explorer and AzCopy.

Configure Azure Files and Azure Blob Storage

- Describe storage tiers.
- Create and configure a file share in Azure Storage.
- Create and configure a container in Blob Storage.
- Configure storage tiers.
- Configure snapshots and soft delete for Azure Files.
- Configure blob lifecycle management.
- Configure blob versioning.

Automate deployment of resources by using Azure Resource Manager (ARM) templates or Bicep files

- Interpret an Azure Resource Manager template or a Bicep file.
- Modify an existing Azure Resource Manager template.
- Modify an existing Bicep file.
- Deploy resources by using an Azure Resource Manager template or a Bicep file.
- Export a deployment as an Azure Resource Manager template or convert an Azure Resource Manager template to a Bicep file.

Create and configure virtual machines

- Create a virtual machine.
- Configure Azure Disk Encryption.
- Move a virtual machine to another resource group, subscription, or region.
- Manage virtual machine sizes.
- Manage virtual machine disks.
- Deploy virtual machines to availability zones and availability sets.
- Deploy and configure an Azure Virtual Machine Scale Sets.

Provision and manage containers in the Azure portal

- Create and manage an Azure container registry.
- Provision a container by using Azure Container Instances.
- Provision a container by using Azure Container Apps.
- Manage sizing and scaling for containers, including Azure Container Instances and Azure Container Apps.

Create and configure Azure App Service

- Provision an App Service plan.
- Configure scaling for an App Service plan.
- Create an App Service.
- Configure certificates and Transport Layer Security (TLS) for an App Service.
- Map an existing custom DNS name to an App Service.
- Configure backup for an App Service.
- Configure networking settings for an App Service.
- Configure deployment slots for an App Service.

Configure and manage virtual networks in Azure

- Create and configure virtual networks and subnets.
- Create and configure virtual network peering.
- Configure public IP addresses.
- Configure user-defined network routes.
- Troubleshoot network connectivity.

Configure secure access to virtual networks

- Create and configure network security groups (NSGs) and application security groups.
- Evaluate effective security rules in NSGs.
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- Configure service endpoints for Azure platform as a service (PaaS).
- Configure private endpoints for Azure PaaS.

Configure name resolution and load balancing

- Configure Azure DNS.
- Configure an internal or public load balancer.
- Troubleshoot load balancing.

Monitor resources in Azure

- Interpret metrics in Azure Monitor.
- Configure log settings in Azure Monitor.
- Query and analyze logs in Azure Monitor.
- Set up alert rules, action groups, and alert processing rules in Azure Monitor.
- Configure and interpret monitoring of virtual machines, storage accounts, and networks by using Azure Monitor Insights.
- Use Azure Network Watcher and Connection Monitor

Implement backup and recovery

- Create a Recovery Services vault.
- Create an Azure Backup vault.
- Create and configure a backup policy.
- Perform backup and restore operations by using Azure Backup.
- Configure Azure Site Recovery for Azure resources.
- Perform a failover to a secondary region by using Site Recovery.
- Configure and interpret reports and alerts for backups.