

# AZ-104

Microsoft Azure  
Administrator

## SYLLABUS



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Cloud & DevOps Expert with 14+ Years of  
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### Skills immediately

- Manage Azure identities and governance (20–25%)
- Implement and manage storage (15–20%)
- Deploy and manage Azure compute resources (20–25%)
- Implement and manage virtual networking (15–20%)
- Monitor and maintain Azure resources (10–15%)

### Manage Azure identities and governance (20–25%)

#### Manage Microsoft Entra users and groups.

- 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.

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### **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.

### **Implement and manage storage (15–20%)**

#### **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**

- 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.

### **Deploy and manage Azure compute resources (20–25%)**

#### **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

### **Implement and manage virtual networking (15–20%)**

#### **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.
- Implement Azure Bastion



- 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 and maintain Azure resources (10–15%)**

#### **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.

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