

## Microsoft Azure Administrator

Duration: 4 Days    Course Code: M-AZ104

### Overview:

**Exclusive - The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment.**

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

### Target Audience:

This course is for Azure Administrators. 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.

### Objectives:

- Students will learn:
- AZ-104: Prerequisites for Azure administrators
- AZ-104: Manage identities and governance in Azure
- AZ-104: Implement and manage storage in Azure
- AZ-104: Configure and manage virtual networks for Azure administrators
- AZ-104: Deploy and manage Azure compute resources
- AZ-104: Monitor and back up Azure resources

### Prerequisites:

Successful Azure Administrators start this role with experience in virtualization, networking, Identity, and storage.

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including users, groups, and role-based access control.
- Understanding of resilience and disaster recovery, including backup and restore operations.

### Testing and Certification

Microsoft Certified: Azure Administrator Associate

## Content:

### AZ-104: Prerequisites for Azure administrators

- Use Azure Resource Manager
- Introduction to Azure Cloud Shell
- Introduction to Bash
- Introduction to PowerShell
- Configure resources with Azure Resource Manager templates

### AZ-104: Manage identities and governance in Azure

- Understand Microsoft Entra ID
- Configure user and group accounts
- Configure subscriptions
- Configure Azure Policy
- Configure role-based access control
- Create Azure users and groups in Microsoft Entra ID
- Secure your Azure resources with Azure role-based access control (Azure RBAC)
- Allow users to reset their password with Microsoft Entra self-service password reset

### AZ-104: Implement and manage storage in Azure

- Configure storage accounts
- Configure Azure Blob Storage
- Configure Azure Storage security
- Configure Azure Files and Azure File Sync
- Create an Azure Storage account
- Control access to Azure Storage with shared access signatures
- Upload, download, and manage data with Azure Storage Explorer

### AZ-104: Configure and manage virtual networks for Azure administrators

- Configure virtual networks
- Configure network security groups
- Configure Azure Virtual Network peering
- Configure network routing and endpoints
- Configure Azure Load Balancer
- Configure Azure Application Gateway
- Design an IP addressing schema for your Azure deployment
- Distribute your services across Azure virtual networks and integrate them by using virtual network peering
- Host your domain on Azure DNS
- Manage and control traffic flow in your Azure deployment with routes
- Improve application scalability and resiliency by using Azure Load Balancer

### AZ-104: Deploy and manage Azure compute resources

- Configure virtual machines
- Configure virtual machine availability
- Configure Azure App Service plans
- Configure Azure App Service
- Configure Azure Container Instances
- Manage virtual machines with the Azure CLI
- Create a Windows virtual machine in Azure
- Host a web application with Azure App Service

### AZ-104: Monitor and back up Azure resources

- Configure virtual machine backups
- Configure Azure Monitor
- Configure Log Analytics
- Configure Network Watcher
- Improve incident response with Azure Monitor alerts
- Analyze your Azure infrastructure by using Azure Monitor logs
- Monitor your Azure virtual machines with Azure Monitor

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## Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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