



# Microsoft Azure Administrator

## Course Description:

This Microsoft Official Curriculum 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.

**Duration:** 4 days (28 hours)

## Audience Profile:

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.

## Prerequisites:

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

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

## Course Outline

### 1 - IDENTITY

- Azure Active Directory
- Users and Groups

### 2 - GOVERNANCE AND COMPLIANCE

- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

### 3 - AZURE ADMINISTRATION

- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates

### 4 - VIRTUAL NETWORKING

- Virtual Networks
- Network Security groups
- Azure Firewall
- Azure DNS



## Course Outline

### 5 - INTERSITE CONNECTIVITY

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

### 6 - NETWORK TRAFFIC MANAGEMENT

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway
- Network Watcher

### 7 - AZURE STORAGE

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

### 8 - AZURE VIRTUAL MACHINES

- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extension

### 9 - SERVERLESS COMPUTING

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

### 10 - DATA PROTECTION

- File and Folder Backups
- Virtual Machine Backups

### 11 - MONITORING

- Azure Monitor
- Azure Alerts
- Log Analytics