

## Microsoft Azure Administration

**Duration:** 4 Day(s)

### Course Overview:

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

### Attend:

This course is for Azure Administrators. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and adjust as appropriate. This role requires communicating and coordinating with vendors. Azure Administrators use the Azure Portal and as they become more proficient they use PowerShell and the Command Line Interface.

### Course Objectives:

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

### Course Content:

#### 1 - Azure Administration

- Resource Groups
- Azure PowerShell and CLI
- Resource Manager
- ARM Templates

#### 2 - Virtual Machines

- Virtual Machine Planning
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions
- Lab : Deploy and Manage Virtual Machines

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### 3 - Azure Storage

- Storage Accounts
- Azure Blobs
- Azure Files
- Storage Security
- Lab : Deploy and Manage Virtual Machines

### 4 - Virtual Networking

- Storage Accounts
- Azure Blobs
- Azure Files
- Storage Security
- Lab : Deploy and Manage Virtual Machines

### 5 - Data Protection

- Data Replication
- File and Folder Backups
- Virtual Machine Backups
- Lab : Azure Site Recovery Between Regions

### 6 - Intersite Connectivity

- Service Endpoints and Network Routing
- VNet-to-VNet Connections
- ExpressRoute
- Lab : VNet Peering and Service Chaining

### 7 - Network Traffic Management

- Service Endpoints and Network Routing
- Azure Load Balancer
- Azure Traffic Manager
- Lab : Load Balancer and Traffic Manager

### 8 - Subscriptions and Accounts

- Subscriptions and Accounts
- Role-based Access Control (RBAC)
- Users and Groups
- Azure Policy
- Billing
- Lab : Governance and Compliance

### 9 - Azure Active Directory

- Azure Active Directory
- Azure AD Connect
- Azure AD Join
- Lab : Implement Directory Synchronization

## 10 - Securing Identities

- Multi-Factor Authentication
- Azure AD Identity Protection
- Self-Service Password Reset
- Lab : Azure AD Identity Protection
- Lab : Self-Service Password Reset

## 11 - Sharing Data

- Import and Export Service
- Data Box
- Content Delivery Network
- File Sync
- Lab : File Sync

## 12 - Monitoring

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher
- Lab : File Sync