



AZ-104T00 - Microsoft Azure Administrator

Summary

Length: 32 hours Level: Experienced

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. This course may earn a Credly Badge.

Learning Objectives

Please refer to course overview

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
- IP Addressing
- Network Security groups
- Azure Firewall
- Azure DNS

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

7. Azure Storage

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

8. Azure Virtual Machines

- Virtual Machine Planning
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

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
- Network Watcher

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.

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.