AZ-104T00 - Microsoft Azure Administrator

Class Length: 4 Days

Overview

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.

Prerequisite Comments

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.

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.

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