AZ-104: Microsoft Azure Administrator (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.

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 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.

Prerequisite courses (or equivalent knowledge and hands-on experience):

- AZ-900: Microsoft Certified Azure Fundamentals

Course Outline

Module 1: Identity
- Azure Active Directory
- Users and Groups

Module 2: Governance and Compliance
- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

Module 3: Azure Administration
- Azure Resource Manager
- Azure Administrator Tools
- ARM Templates

Module 4: Virtual Networking
- Virtual Networks
- Network Security groups
- Azure Firewall
- Azure DNS

Module 5: Intersite Connectivity
- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

Module 6: Network Traffic Management
- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway

Module 7: Azure Storage
- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

Module 8: Azure Virtual Machines
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

Module 9: PaaS Compute Options
- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

Module 10: Data Protection
- File and Folder Backups
- Virtual Machine Backups

Module 11: Monitoring
- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher