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.