

AZ-104: Microsoft Azure Administrator (16 Hours)

Overview

In this online training course, students will learn to manage Azure subscriptions and resources, implement and manage storage, deploy and manage virtual machines (VMs), configure and manage virtual networks, and manage identities. This course is for those who are either looking to gain more knowledge about administering Azure cloud services, security, networking, and compute cloud abilities or who are looking to pass the AZ-104 exam and complete their Microsoft Certified: Azure Administrator certification.

Audience Profile

This course is for Azure Administrators and those who are looking to take and pass the AZ 104 exam. The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment.

Prerequisites

None but we recommend that students have previous knowledge and experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

Course Outline

1. Introduction

- Audience
- Prerequisites
- Exam Objectives
- Resources
- About this course

2. Entra ID

- Entra ID or Azure Active Directory
- Identity
- Account
- Tenancy
- Users
- Groups
- Licensing
- Roles
- Comparing Entra ID to Active Directory Domain Services
- Cloud to on prem
- Entra ID Connect
- Supported Editions of Entra ID
- Self-Service Password Reset

3. Subscriptions and RBAC, Manage Governance via Azure Policy

- Subscriptions
- Azure Role-based Access Control (RBAC)
- Azure Policies

4. Azure Resources

- Azure Portal
- Azure Cloud Shell
 - Workspace
 - PowerShell
 - Bash
- Azure Resource Manager
 - Object hierarchy
- Resource Groups
- Locks
- Managing Resource locations
- Resource Manager Templates
 - Templates
 - Parameters
 - Quick Start Templates
 - JSON
 - Bicep

5. Azure Virtual Networks

- About Azure Virtual Networks
- Azure Virtual Networks and Subnets
- Access Settings

6. Network Security Groups

- About Network Security Groups (NSGs)
- Scoping
- Creating Network Security Groups
- Network Security Group Access Rules
- Application Security Groups

7. Implement Traffic Management

- Azure Virtual Network Peering
- Azure Routing
- Service Endpoints
- Azure Private Link
- Azure Load Balancer
- Azure Application Gateway
- Azure DNS

8. Azure Settings

- Storage Accounts
- Storage Replication
- Storage Access
- Azure Blob Storage
- Azure File Storage
- Azure Tables
- Azure Queues
- Azure Managed Disks
- Azure Storage Security

9. Azure Virtual Machines

- Planning Azure Virtual Machines
- Operating Systems
- Azure VM Sizing
- Azure VM Settings
- Azure VM Storage
- Azure VM Connections
- Azure VMs and Availability Zones
- Update and Fault Domains
- Scale Sets
- Auto Scale
- Managing VMs with the Azure CLI

10. App Service Plans

- About App Service Plans
- App Service
- Web Apps
- Container Instances

11. Azure Backup

- About Azure Backup
- Azure Backup Scenarios
- Azure Virtual Machine Backups
- VM Snapshots in Azure Backup
- VM Soft Delete in Azure
- Azure Site Recovery

12. Azure Monitoring

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher