AZ-104: Microsoft Azure Administrator

Course outline

Module 1: Identity

In this module, you will learn how to secure identities with Azure Active Directory, and implement users and groups.

Lessons

Azure Active Directory

Users and Groups
Lab : Manage Azure Active Directory Identities

Module 2: Governance and Compliance

In this module, you will learn about managing your subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control.

Lessons

Subscriptions and Accounts
Azure Policy
Role-based Access Control (RBAC)
Lab : Manage Subscriptions and RBAC
Lab : Manage Governance via Azure Policy

Module 3: Azure Administration

In this module, you will learn about the tools an Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates. This module includes:

Lessons

Azure Resource Manager
Azure Portal and Cloud Shell
Azure PowerShell and CLI
ARM Templates
Lab : Manage Azure resources by Using the Azure Portal
Lab : Manage Azure resources by Using ARM Templates
Lab : Manage Azure resources by Using Azure PowerShell
Lab : Manage Azure resources by Using Azure CLI

Module 4: Virtual Networking

In this module, you will learn about basic virtual networking concepts like virtual networks and subnetting, IP addressing, network security groups, Azure Firewall, and Azure DNS.

Lessons

Virtual Networks
IP Addressing
Network Security groups
Azure Firewall
Azure DNS
Lab : Implement Virtual Networking

Module 5: Intersite Connectivity

In this module, you will learn about intersite connectivity features including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections.

Lessons

VNet Peering
VPN Gateway Connections
ExpressRoute and Virtual WAN
Lab : Implement Intersite Connectivity

Module 6: Network Traffic Management

In this module, you will learn about network traffic strategies including network routing and service endpoints, Azure Load Balancer, Azure Application Gateway, and Traffic Manager.

Lessons

Network Routing and Endpoints
Azure Load Balancer
Azure Application Gateway
Traffic Manager
Lab : Implement Traffic Management

Module 7: Azure Storage

In this module, you will learn about basic storage features including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools.

Lessons

Storage Accounts
Blob Storage
Storage Security
Azure Files and File Sync
Managing Storage
Lab : Manage Azure storage

Module 8: Azure Virtual Machines

In this module, you will learn about Azure virtual machines including planning, creating, availability and extensions.

Lessons

Virtual Machine Planning
Creating Virtual Machines
Virtual Machine Availability
Virtual Machine Extensions
Lab : Manage virtual machines

Module 9: Serverless Computing

In this module, you will learn administer serverless computing features like Azure App Service, Azure Container Instances, and Kubernetes.

Lessons

Azure App Service Plans
Azure App Service
Container Services
Azure Kubernetes Service
Lab : Implement Web Apps
Lab : Implement Azure Container Instances
Lab : Implement Azure Kubernetes Service

Module 10: Data Protection

In this module, you will learn about backing up files and folders, and virtual machine backups.

Lessons

File and Folder Backups
Virtual Machine Backups
Lab : Implement Data Protection

Module 11: Monitoring

In this module, you will learn about monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics.

Lessons

Azure Monitor
Azure Alerts
Log Analytics
Network Watcher
Lab : Implement Monitoring