



Microsoft Azure Administrator

Azure Administrator

DURATION: 4 DAYS

COURSE CODE: AZ-103

FORMAT: LECTURE/LAB

WHY FIREFLY

Firefly is trusted by customers, technology vendors and channel partners around the world to deliver highly effective, immersive educational experiences. Our innovative, role-based Microsoft training covers all of the latest certifications, from Azure to Server 2016 to SQL to the modern desktop, and is designed engineers the skills they need to remain relevant in today's multicloud world.

COURSE DESCRIPTION

This course teaches IT Professionals how to manage their Azure subscriptions, create and scale virtual machines, implement storage solutions, configure virtual networking, back up and share data, connect Azure and on-premises sites, manage network traffic, implement Azure Active Directory, secure identities, and monitor your solution.

WHO SHOULD ATTEND

This course is for Azure Administrators. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and adjust as appropriate. This role requires communicating and coordinating with vendors. Azure Administrators use the Azure Portal and as they become more proficient they use PowerShell and the Command Line Interface.

PREREQUISITES

Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks

Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies

Understanding of Active Directory concepts, including

COURSE OUTLINE

1. Azure Administration

In this module, you'll learn about tooling Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, Resource Manager, and Resource Manager Templates. The demonstrations in this module will ensure you are successful in the course labs.

Azure Portal and Cloud Shell

Azure PowerShell and CLI

Resource Manager

ARM Templates

2. Azure Virtual Machines

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

Virtual Machine Planning

Creating Virtual Machines

Virtual Machine Availability

Virtual Machine Extensions

Lab : Deploy and Manage Virtual Machines

Lab : Virtual Machines and Scale Sets

3. Azure Storage

In this module, you'll learn about basic storage features including storage accounts, blob storage, Azure files, and storage security.

Storage Accounts

Azure Blobs

Azure Files

Storage Security

Lab : Implement and Manage Storage

4. Virtual Networking

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

Virtual Networks

IP Addressing and Endpoints

Azure DNS

Network Security Groups

Lab : Configure Azure DNS

5. Intersite Connectivity

In this module, you'll learn about intersite connectivity features including VNet Peering, VNet-to-VNet connections, Site-to-Site Connections, and ExpressRoute.

VNet Peering

VNet-to-VNet Connections

ExpressRoute Connections

Lab : VNet Peering and Service Chaining

6. Monitoring

In this module, you'll learn about monitoring your Azure infrastructure including Azure Monitor, alerting, log analytics, and Network Watcher.

Azure Monitor

Azure Alerts

Log Analytics

Network Watcher

Lab : Network Watcher

7. Data Protection

In this module, you'll learn about data replication strategies, backing up files and folders, and virtual machine backups.

Data Replication

File and Folder Backups

Virtual Machine Backups

Lab : Azure Site Recovery Between Regions

8. Network Traffic Management

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

Network Routing

Azure Load Balancer

Azure Traffic Manager

Lab : Load Balancer and Traffic Manager

9. Azure Active Directory

In this module, you'll learn about Azure Active Directory (AD) including Azure AD Connect and Azure AD Join.

Azure Active Directory

Azure AD Connect

Azure AD Join

Lab : Implement Directory Synchronization

10. Securing Identities

In this module, you'll learn how to secure identities including Multi-Factor Authentication, Azure AD Identity Protection, and Self-Service Password Reset.

Multi-Factor Authentication

Azure AD Identity Protection

Self-Service Password Reset

Lab : Azure AD Identity Protection

Lab : Self-Service Password Reset

11. Governance and Compliance

In this module, you'll learn about managing your subscriptions and accounts including role-based access control, users and groups, and Azure policy.

Subscriptions and Accounts

Role-Based Access Control (RBAC)

Users and Groups

COURSE OUTLINE

Azure Policy

Lab : Role-Based Access Control

Lab : Governance and Compliance

12. Data Services

In this module, you'll learn how to effectively share data using Import and Export service, Data Box, Content Delivery Network, and File Sync.

Content Delivery Network

File Sync

Import and Export Service

Data Box

Lab : File Sync