

# COURSE OUTLINE



**Course Name:** Microsoft Azure Administration

**Course Code:** MS-AZ104T00

DURATION	SKILLSLEVEL	DELIVERY METHOD	TRAINING CREDITS	TECHNOLOGY
4 Days	Intermediate	In Class/VILT	N/A	Agile

## Course 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.

## Target 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 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
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- Understanding of resilience and disaster recovery, including backup and restore operations.

## Course Content

### Module 1: Identity

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

- Introduction
- Explore ASP.NET Core APIs
- Document an API by using Swashbuckle
- Exercise – Interact with an API
- Knowledge check

### Module 2: Governance and Compliance

- Secure and manage identities with Azure Active Directory.
- Implement and manage users and groups.

### 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

- Implement and manage Azure subscriptions and accounts.
- Implement Azure Policy, including custom policies.
- Use RBAC to assign permissions.

### 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.

- Leverage Azure Resource Manager to organize resources.
- Use the Azure Portal and Cloud Shell.
- Use Azure PowerShell and CLI.
- Use ARM Templates to deploy resources.

### 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.

- Leverage Azure Resource Manager to organize resources.
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- Use the Azure Portal and Cloud Shell.
- Use Azure PowerShell and CLI.
- Use ARM Templates to deploy resources.

## Module 6: Network Traffic Management

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

- Configure VNet Peering.
- Configure VPN gateways.
- Choose the appropriate intersite connectivity solution.

## 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.

- Configure network routing including custom routes and service endpoints.
- Configure an Azure Load Balancer.
- Configure and Azure Application Gateway.

## Module 8: Azure Virtual Machines

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

- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions

## Module 9: PaaS Compute Options

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

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service

## Module 10: Data Protection

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

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- File and Folder Backups
- Virtual Machine Backups

## Module 11: Monitoring

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

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

## Follow on Course

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