



*Training Course:  
Microsoft Azure Administrator*

*2 - 6 December 2024  
Tbilisi (Georgia)*

## Training Course: Microsoft Azure Administrator

Training Course code: IT234692 From: 2 - 6 December 2024 Venue: Tbilisi (Georgia) - Training Course Fees: 5775 € Euro

### Introduction

This training 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.

### Course Objectives

- How to secure identities with Azure Active Directory, and implement users and groups.
- Manage subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control.
- What are the tools an Azure Administrator uses to manage their infrastructure?
- What are the basic virtual networking concepts like virtual networks and sub-netting, IP addressing, network security groups, Azure Firewall, and Azure DNS?
- Interconnectivity features including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections.
- Network traffic strategies including network routing and service endpoints, Azure Load Balancer, and Azure Application Gateway.
- Basic storage features including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools.
- Azure virtual machines including planning, creating, availability and extensions.
- How to administer server less computing features like Azure App Service, Azure Container Instances, and Kubernetes.
- Backing up files and folders, and virtual machine backups.
- Monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics.

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

## Course Outlines

### Module 1: Identity

- Azure Active Directory
- Users and Groups

Lab: Manage Azure Active Directory Identities

### Module 2: Governance and Compliance

- 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

- Azure Resource Manager
- Azure Administrator Tools
- ARM Templates

Lab: Manage Azure resources by Using ARM Templates

Lab: Manage Azure resources by Using Azure PowerShell optional

Lab: Manage Azure resources by Using Azure CLI optional

Lab: Manage Azure resources by Using the Azure Portal

### Module 4: Virtual Networking

- Virtual Networks
- Network Security groups
- Azure Firewall
- Azure DNS

Lab: Implement Virtual Networking

- Configure private and public DNS zones.

### Module 5: Inter site Connectivity

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN

Lab: Implement Inter site Connectivity

## Module 6: Network Traffic Management

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway

### Lab: Implement Traffic Management

## Module 7: Azure Storage

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync
- Managing Storage

### Lab: Manage Azure storage

## Module 8: Azure Virtual Machines

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

### Lab: Manage virtual machines

## Module 9: PaaS Compute Options

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

### Lab: Implement Web Apps

### Lab: Implement Azure Kubernetes Service

### Lab: Implement Azure Container Instances

## Module 10: Data Protection

- File and Folder Backups
- Virtual Machine Backups

### Lab: Implement Data Protection

## Module 11: Monitoring

- Azure Monitor
- Azure Alerts
- Log Analytics

- Network Watcher

Lab: Implement Monitoring

## Registration form on the Training Course: Microsoft Azure Administrator

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