

# AZ-104

## Microsoft Azure Administrator

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.

### Course Contents

- Identity
- Governance and Compliance
- Azure Administration
- Virtual Networking
- Intersite Connectivity
- Network Traffic Management
- Azure Storage
- Azure Virtual Machines
- Serverless Computing
- Data Protection
- Monitoring

**E-Book** The original Microsoft courseware is made available to you online.

### Target Group

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.

### This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

[www.experteach-training.com/go/MZ14](http://www.experteach-training.com/go/MZ14)

### Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

### Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

### Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

# AZ-104

Status 06/16/2024

Training		Prices, excl. of V.A.T.	
<b>Classes in Germany</b>	<b>4 Days</b>	<b>€ 2,195</b>	
<b>Online Training</b>	<b>4 Days</b>	<b>€ 2,195</b>	
<b>Date/course venue</b>	<b>Course language German </b>		
01/07-04/07/24	21/10-24/10/24		
29/07-01/08/24	18/11-21/11/24		
26/08-29/08/24	16/12-19/12/24		
23/09-26/09/24	16/12-19/12/24		
23/09-26/09/24			



# Table of Contents

## AZ-104 – Microsoft Azure Administrator

### Module 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. Lessons

Azure Portal and Cloud Shell

Azure PowerShell and CLI

Resource Manager

ARM Templates

### Module 2: Azure Virtual Machines

In this module, you'll 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 : Deploy and Manage Virtual MachinesLab :

Virtual Machines and Scale Sets

### Module 3: Azure Storage

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

Storage Accounts

Azure Blobs

Azure Files

Storage Security

Lab : Implement and Manage Storage

### Module 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. Lessons

Virtual Networks

IP Addressing

Azure DNS

Network Security Groups

Lab : Configure Azure DNS

### Module 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. Lessons

VNet Peering

VNet-to-VNet Connections

ExpressRoute Connections

Lab : VNet Peering and Service Chaining

### Module 6: Monitoring

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

Azure Monitor

Azure Alerts

Log Analytics

Network Watcher

Lab : Network Watcher

### Module 7: Data Protection

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

Data Replication

File and Folder Backups

Virtual Machine Backups

Lab : Azure Site Recovery Between Regions

### Module 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. Lessons

Service Endpoints and Network Routing

Azure Load Balancer

Azure Traffic Manager

Lab : Load Balancer and Traffic Manager

### Module 9: Azure Active Directory

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

Azure Active Directory

Azure AD Connect

Azure AD Join

Lab : Implement Directory Synchronization

### Module 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. Lessons

Multi-Factor Authentication

Azure AD Identity Protection

Self-Service Password Reset

Lab : Azure AD Identity ProtectionLab : Self-Service

Password Reset

### Module 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. Lessons

Subscriptions and Accounts

Role-Based Access Control (RBAC)

Users and Groups

Azure Policy

Lab : Role-Based Access ControlLab : Governance and

Compliance

### Module 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. Lessons

Content Delivery Network

File Sync

Import and Export Service

Data Box

Lab : File Sync

