

Microsoft Azure Administrator – Flexible Training («AZ104V»)

This AZ-104 training consists of a maximum of 2 half-day sessions per week for a maximum of 4 weeks with integrated learning support. Click «Timetable» for the session plan at the bottom of the page where you select your desired date.

Duration: 3 days

Price: 2'550.–

Course documents: Official Microsoft Courseware and Microsoft Learn

Vendor code: AZ-104

Content

The content of this flexible training is derived from the exam «[AZ-104: Microsoft Azure Administrator](#)». Start preparing for the course on Microsoft Learn now. During the 3h instructor sessions you will work with the official Microsoft course material (more information under «Methodology & didactics»).

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 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

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
- 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, and Azure Application Gateway.

Lessons

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

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

- 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.

Lessons

- 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

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

Lab : Implement Monitoring

Key Learnings

- Managing Azure identities and governance
- Implementing and managing storage
- Deploying and managing Azure compute resources
- Configuring and managing virtual networking
- Monitoring and backing up Azure resources

Methodology & didactics

Digicomp Flexible Learning Approach:

- **Training modality:** During a period of 4 weeks, 6–8 half-day (3h each) virtual live sessions with our Azure MCT experts will take place. The sessions are already planned and can be easily combined with the daily work routine. Between the sessions there is enough time to process the learned knowledge.
- **Detailed Session Plan:** Click «[Timetable](#)» at the bottom of the page where you select your desired date.

Target audience

This course is aimed at 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.

Requirements

Successful Azure Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

- 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 domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

The following course or equivalent knowledge is required:

- [Microsoft Azure Fundamentals \(Hands-on\) – Intensive Training \(«A900IC»\)](#)
- [Microsoft Azure Fundamentals – Flexible Training \(«AZ900V»\)](#)

Certification

This flexible training prepares you for:

- **Exam:** «AZ-104 – Microsoft Azure Administrator» for the
- **Certification:** «Microsoft Certified: Azure Administrator Associate»

Further courses

- [Configuring and Operating Microsoft Azure Virtual Desktop – Flexible Training \(«AZ140V»\)](#)
- [Microsoft Azure DevOps Engineer Expert – Flexible Training \(«AZ400V»\)](#)
- [Planning and Administering Microsoft Azure for SAP Workloads – Flexible Training \(«AZ120V»\)](#)
- [Microsoft Identity and Access Administrator – Flexible Training \(«SC300V»\)](#)
- [Designing Microsoft Azure Infrastructure Solutions – Flexible Training \(«AZ305V»\)](#)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-digital-transformation-technologies/cloud/microsoft-azure/course-microsoft-azure-administrator-flexible-training-az-104