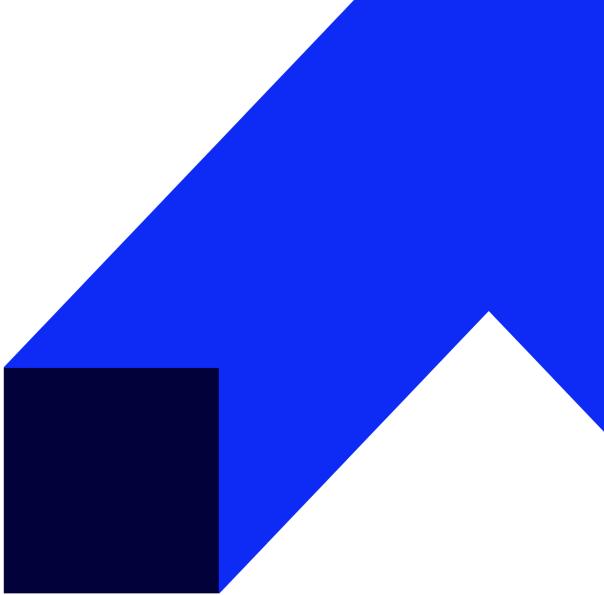# Microsoft Azure Administrator

Authorized training Microsoft Azure Administrator AZ-104 on-line course.

This course is for Azure Administrators.

This course teaches IT Professionals how to secure identities, manage their Azure subscriptions, 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.

Training recipients

Authorized training:
- for people responsible for:
- managing services in Azure cloud
- implementing
- managing
- monitoring the identity,
- calculations
- virtual networks within cloud environment.

The main profile of recipients are:
- Azure platform administrators who are responsible for delivering, scaling, monitoring and adjusting resources for organization's needs.
- people who would like to take AZ-104: Microsoft Azure Administrator exam.
- The course also aims to prepare Azure administrators to direct them to work from Azure portal to use PowerShell.

Benefits

Successful learners AZ-104 will have prior knowledge and understanding of gaining knowledge and practical skills from Azure platform management.

Including acquaintance with:

- Securing and managing identities thanks to Azure Active Directory as well as implementing and manging users and groups.
- Implementing and managing subscription and Azure platform accounts, as well as using RBAC to assign rights.
- Using Azure Resource Manager to organize resources, making use of Azure Portal, Cloud Shell, Azure PowerShell and command line interface as well as using ARM templates to implement resources.
- Implementing virtual networks and subnetworks, configuring public and private IP addressing, configuring groups of network securities, configuring Azure firewall, as well as configuring private and public DNS area.
- Configuring VNet equivalent connections, configuring VPN gateway and choosing the right intersite connection solution.
- Configuring network routing, configuring Azure overload balancing module, configuring Azure Application Gateway and choosing the right solution for web traffic.
- Creating Azure storage account, blob object container configuration, secure Azure storage, configuring Azure platform file shares and file synchronization, as well as storage management using such tools as Storage Explorer.
- Planning virtual machine implementation, creating virtual machines, configuring virtual machine availability, including scaling sets and using virtual machine extensions.
- Creating a plan of applications services, creating a network application, implementing Azure container occurences, as well as implementing Azure Kubernetes service.
- Creating back-ups and restoring files and folders and virtual machines.
- Using Azure Monitor, creating Azure platform alerts, creating enquiries using Log Analytics, as well as Network Watcher.

Become Microsoft Certified: https://arch-center.azureedge.net/Credentials/Certification-Poster_en-us.pdf

Training program

1. Identity
   - Azure Active Directory
   - Users and groups
2. Management and compliance
   - Subscriptions and accounts
   - The rules of Azure platform

- Role Based Access Control (RBAC)
3. Azure administration
    - Azure Resource Manager
    - Azure Portal and Cloud Shell
    - Azure PowerShell and command line interface
    - ARM templates
4. Virtual network
    - Virtual networks
    - IP addressing
    - Groups of network security
    - Azure firewall
    - Azure DNS
5. Intersite communication
    - Virtual network peering
    - VPN gateway connections
    - ExpressRoute and WAN virtual network
6. Web traffic management
    - Network Routing and Endpoints
    - Azure Load Balancer
    - Azure Application Gateway
    - Traffic Manager
7. Azure Storage
    - Storage accounts
    - Object storage blob
    - Storage security
    - Azure platform files and file synchronization
    - Mass storage management
8. Azure Virtual Machines
    - Virtual machine planning
    - Developing virtual machines
    - Virtual machine availability
    - Virtual machine extensions
9. Serverless calculations
    - Azure App Service plans
    - Azure application service
    - Container services
    - Kubernetes service
10. Data protection
    - File and folder back-ups
    - Virtual machine back-ups
11. Monitoring

- Azure Monitor
- Azure alerts
- Log Analytics
- Network Watcher

Expected preparation of the participant

At least 2 years of experience in the area of operational systems, virtualization, cloud infrastructure, mass storage and network structures.

Knowledge of local virtualization technologies including: virtual machines, virtual networks and disks, a knowledge of network configuration, among others TCP/IP, Domain Name System (DNS), Virtual Private Networks (VPN), firewalls and coding technologies, knowledge of Active Directory terms, including domains, forests, domain controllers, replication, Kerberos and LDAP protocols (Lightweight Directory Access Protocol), knowledge of the issues related to providing high availability and restoring after failure, including back-ups and restoring.

An ability to successfully use PowerShell commands.

An ability to use English language materials.

Training Includes

- manual in electronic form available on the platform: https://learn.microsoft.com/pl-pl/training/
- access to Altkom Akademia's student portal

Language

- Training: English
- Materials: English

Examination method

Become Microsoft Certified: https://arch-center.azureedge.net/Credentials/Certification-Poster_en-us.pdf
On-line exam. Record at: https://home.pearsonvue.com/Clients/Microsoft.aspx

Duration

4 days / 28 hours

Examination description

Microsoft Certified: Azure Administrator Associate

Exam URL: https://docs.microsoft.com/en-us/learn/certifications/exams/AZ-104

Become Microsoft Certified: https://arch-center.azureedge.net/Credentials/Certification-Poster_en-us.pdf