

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.



Purpose of the training

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**.

AZ-104 includes the following issues as well:

- Azure platform **subscription management**
- identity security
- infrastructure **administration**
- virtual network configuration
- **combining Azure platform** and regional location
- web traffic management
- implementing mass storage solutions

- creating and scaling virtual machines
- implementing applications and containers
- creating back-ups
- **data sharing**
- monitoring cloud environment.



Benefits of completing the training

Successful learners **AZ-104** will have prior knowledge and understanding of:

- Gaining knowledge
- practical skills from Azure platform management.

Including acquaintance with:

- Securing and **managing identities** thanks to Azure Active Directory as well as implementing and managing 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 occurrences, 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.



Examination method

On-line exam. Record at: <https://home.pearsonvue.com/Clients/Microsoft.aspx>



Exam description

<https://docs.microsoft.com/en-us/learn/certifications/exams/AZ-104>



Expected Listener Preparation

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Training Language

- **Training:** English
- **Materials:** English

Training Includes

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

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Training agenda

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