

training code: AZ-104 / ENG DL 4d / EN

# Microsoft Azure Administrator

**Authorized training Microsoft Azure** Administrator **AZ-104 online** 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:
  - o managing services in Azure cloud
  - o implementing
  - managing
  - o monitoring the identity,
  - calculations
  - o 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 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.





### **Examination** method

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



# 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: <a href="https://learn.microsoft.com/pl-pl/training/">https://learn.microsoft.com/pl-pl/training/</a>
- access to Altkom Akademia's student portal

### Duration

4 days / 28 hours



### 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