

training code: AZ-800 / ENG DL 4d / EN

Administering Windows Server Hybrid Core Infrastructure

Authorized Microsoft Administering Windows Server Hybrid Core Infrastructure **AZ-800** Distance Learning training. **Target audience:**

- Administrator
- Architect
- Engineer
- Specialist



Purpose of the training

The following course teaches IT specialists how to manage basic workloads and Windows Server services using local, hybrid and cloud technologies. During the course participants learn how to implement and manage local and hybrid solutions such as identity, management, calculations, networks and mass storage in hybrid Windows Server environment.



Benefits of completing the training

- Apply techniques and administration tools in Windows Server system.
- Identify tools used to implement hybrid solutions, including Windows Admin Center and PowerShell.
- Implement identity services in Windows Server system.
- Implement identity in hybrid scenarios, including Azure AD DS in Azure IaaS and managed AD DS.
- Integrate Azure AD DS. service with Azure AD.
- Manage network infrastructure services.
- Implement Azure platform virtual machines with Windows Server system, as well as configure network and storage.
- Administer Windows Server IaaS virtual machine remotely and manage it.
- Manage and maintain Azure platform virtual machines with Windows Server system.

- Configure file servers and mass storage.
- Implement file services in hybrid scenarios using Azure Files and Azure File Sync.



Examination method

The exam is on-line. You can enroll at: <https://home.pearsonvue.com/Clients/Microsoft.aspx>



Exam description

After the AZ-800 course, you can take Microsoft certification exams:an Authorized Test Center,online being monitored by an offsite proctor. Details on the website:<https://docs.microsoft.com/en-us/learn/certifications/exams/az-800>



Expected Listener Preparation

Before attending the course, participants must have:

- Experience in managing Windows Server system and Windows Server workloads in local scenarios, including AD DS, DNS, DFS, Hyper-V, as well as file and storage services
- Experience with popular tools to manage Windows Server
- Basic knowledge of basic computing technologies, mass storage, Microsoft network and virtualisation
- Experience and understanding basic network technologies such as IP addressing, name recognition and Dynamic Host Configuration Protocol (DHCP)
- Work experience and understanding Microsoft Hyper-V technologies and basic server virtualisation concepts
- Basic experience in implementing IaaS services in Microsoft Azure
- Basic knowledge of Azure Active Directory
- Practical work with Client Windows operational systems such as Windows 10 or Windows 11
- Basic experience with Windows PowerShell

To make work more convenient and training more effective we suggest using additional screen. Lack of extra screen does not make it impossible to participate in the training, but significantly influences the convenience of work during classes

Information and requirements concerning participation in distance learning trainings is available at: <https://www.altkomakademia.pl/distance-learning/#FAQ>



Training Language

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

Training Includes

* electronic handbook available at:

<https://learn.microsoft.com/pl-pl/training/>

* access to Altkom Akademia student portal

Training method:

- theory
- demos
- individual laboratories
- 70% theory
- 30% practice

Duration

4 days / 28 hours

Training agenda

1: Identity services in Windows Server system

- Introduction to AD DS
- AD DS. domain controllers and FSMO roles
- Implement group rule objects

2: Implementing identity in hybrid scenarios

- Implement hybrid identity in Windows Server system
- Implement Azure IaaS Active Directory domain controllers and manage them on Azure platform

3: Windows Server administration

- Perform secure Windows Server administration
 - Describe Windows Server administration tools
 - Perform post-installation Windows server configuration
 - Just Enough Administration in Windows Server
- 4: Simplifying hybrid management
- Remote administration and Windows Server IaaS virtual machine management
 - Manage hybrid workloads using Azure Arc service
- 5: Hyper-V virtualisation in Windows Server
- Configure and manage Hyper-V
 - Configure and manage Hyper-V virtual machines
 - Secure Hyper-V workloads
 - Launch containers in Windows Server
 - Container orchestration in Windows Server using Kubernetes
- 6: Implementing and configuring Azure platform virtual machines
- Plan and implement Windows Server IaaS virtual machines
 - Adjust Windows Server IaaS virtual machine images
 - Automate configuration of Windows Server IaaS virtual machines
- 7: Network infrastructure services in Windows Server
- Implement and manage DHCP
 - Implement Windows Server DNS
 - Implement IP address management
 - Implement remote access
- 8: Hybrid network infrastructure implementation
- Hybrid network infrastructure implementation
 - Implement DNS for IaaS virtual machines with Windows Server system
 - Implement addressing and Windows Server IaaS virtual machine IP routing
- 9: File servers and mass storage management in Windows Server
- Manage Windows Server file servers
 - Implement places for storage and places for direct storage
 - Implement Windows Server data deduplication
 - Implement Windows Server iSCSI
 - Implement Windows Server mass storage replica
- 10: Implementing hybrid file server infrastructure
- Review of Azure file services
 - Implementing Azure File Sync