

Administer Windows Server

This course teaches IT professionals how to deploy, manage, secure, and troubleshoot Windows Server workloads across on-premises, hybrid, and cloud environments. The course covers Active Directory Domain Services, Hyper-V and Azure virtual machines, on-premises and hybrid networking, storage and file services, Windows Server security hardening, and monitoring and troubleshooting. It highlights administrative tools and technologies including Windows Admin Center, PowerShell, Azure Arc, Azure Monitor, Azure Update Manager, and Microsoft Defender for Cloud.



Training recipients

The training is intended for:

- Administrators



Benefits

By completing this course, students will achieve the following objectives:

- Deploy and manage Active Directory Domain Services
- Configure remote management for Windows Servers using Windows Admin Center and PowerShell
- Manage Hyper-V and guest virtual machines
- Implement DNS and DHCP
- Manage Windows Server file shares, Azure File Sync and Azure Files
- Managing and monitoring Windows Server hybrid infrastructure



Training program

1. Deploy and manage Active Directory Domain Services

- Deploy and manage Active Directory Domain Services domain controllers
- Deploy and manage Azure IaaS Active Directory domain controllers in Azure
- Manage AD DS domain controllers and FSMO roles
- Create and manage Active Directory objects
- Implement hybrid identity with Windows Server
- Create and configure Group Policy Objects in Active Directory
- Implement Group Policy Objects
- Manage advanced features of AD DS

2. Manage Windows Server instances and workloads in a hybrid environment

- Administer and manage Windows Server IaaS Virtual Machine remotely
- Describe Windows Server administration tools
- Just Enough Administration in Windows Server
- Perform Windows Server secure administration
- Use advanced Windows PowerShell remoting techniques
- Manage single and multiple computers by using Windows PowerShell remoting
- Manage hybrid workloads with Azure Arc
- Manage Azure updates
- Automate the configuration of Windows Server IaaS Virtual Machines
- Enforce VM security configuration with Azure Machine Configuration
- Explore Azure Automation with DevOps

3. Manage virtual machines

- Configure and manage Hyper-V virtual machines
- Configure and manage Hyper-V
- Secure Hyper-V workloads
- Implement high availability of Windows Server VMs
- Plan and deploy Windows Server IaaS Virtual Machines
- Implement scale and high availability with Windows Server VM
- Implement Windows Server IaaS VM IP addressing and routing
- Implement Windows Server IaaS VM network security
- Administer and manage Windows Server IaaS Virtual Machine remotely

4. Implement and manage an on-premises and hybrid networking infrastructure

- Implement Windows Server DNS
- Implement DNS for Windows Server IaaS VMs
- Secure Windows Server DNS
- Deploy and manage DHCP
- Implement IP Address Management

- Implement Windows Server IaaS VM IP addressing and routing

5. Manage storage and file services

- Implement a hybrid file server infrastructure
- Manage Windows Server file servers
- Implement Storage Spaces and Storage Spaces Direct
- Implement Windows Server Data Deduplication
- Implement Windows Server iSCSI
- Implement Windows Server Storage Replica



Expected preparation of the participant

- Experience administering Windows Server operating systems
- Familiarity with Hyper-V and Azure virtual machines
- Familiarity with core networking technologies including DNS and DHCP
- Familiarity with storage concepts and file server management
- Familiarity with Active Directory Domain Services (AD DS) concepts
- Basic knowledge of Group Policy
- Basic knowledge of PowerShell
- Familiarity with Azure Arc and Azure portal basics



Training Includes

- * electronic handbook available at: <https://learn.microsoft.com/pl-pl/training/>
- * access to Altkom Akademia student portal



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Language

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