

Windows Server 2025 Administration

- Non-Microsoft training on Windows Server 2025 management
- The course teaches you the common administrative skills required to operate Windows Server 2025.
- The training introduces administrators to identity, network, storage and computing power management based on Windows Server 2025 in a practical way.
- The training also touches on the subject of virtualization and high availability solutions.
- The course also discusses remote access solutions, addresses security features, and familiarizes you with the basics of the Windows Server 2025 migration process.



Training recipients

The training is intended for:

- Administrators who manage an IT environment based on Windows Server 2025 and want to gain additional knowledge in this area.
- IT Professionals who plan to gain knowledge in the configuration of identity management technologies, storage, network configuration, high availability and virtualization, based on the latest Microsoft Windows server system.
- IT Specialists who already have some experience with Windows Server 2016/2019/2022 and want to expand or consolidate their knowledge in context for Windows Server 2025.



Benefits

- Windows management – you will gain knowledge on how to use Microsoft solutions available in Windows Server 2025.
- Administration of identity services, network services, virtualization, storage, high availability and remote access – you will gain knowledge and skills in using these solutions, based on Windows Server 2025.
- Security in Microsoft networks – you will gain knowledge about selected mechanisms affecting the security of Windows-based infrastructure.
- Using Powershell – you will gain practical experience in using solutions with Powershell.
- Migration to Windows Server 2025 – you will learn about the news, changes and the process of migrating to the latest version of Windows Server



Training program

. Introduction

- About the training
- Training agenda
- Overview of the lab environment

2. Windows Server administration overview

- Windows Server 2025 – news, changes
- Windows Server Core overview
- Overview of Windows Server Administration Policies and Tools

3. Identity Services in Windows Server

- Overview of AD DS
- Deploying Windows Server Domain Controllers
- Overview of Entra ID cloud service
- Group Policy Deployment
- Overview of Certificate Services in Active Directory

4. Network Infrastructure Services in Windows Server

- Deploying and managing DHCP
- Deploying and managing DNS
- Deploying and managing IPAM

5. File servers and storage management in Windows Server

- Volumes and file systems in Windows Server

- Implementation of network sharing in Windows Server
 - Implementing Storage Spaces in Windows Server
 - Implementing data deduplication
 - iSCSI implementation
 - Distributed File System DFS
6. Hyper-V virtualization and containers in Windows Server
- Hyper-V on Windows Server
 - Configuring virtual machines
 - Securing virtualization in Windows Server
 - Containers in Windows Server
7. High availability on Windows Server
- Planning your failover cluster implementation
 - Creating and configuring a failover cluster
 - Basics of stretch clusters
 - High Availability for Hyper-V
8. Disaster Recovery in Windows Server
- Hyper-V replica
 - Windows Server backup
9. Windows Server Security
- Credentials and privileged access protection
 - Hardening Windows Server
 - JEA on Windows Server
 - Securing and analyzing SMB traffic
 - LAPS Management
10. RDS Terminal Services in Windows Server
- Overview of RDS
 - Set up session-based desktop deployment
 - Overview of personal and connected virtual desktops
11. Remote Access and Web Service in Windows Server
- Deploying a VPN
 - Using NPS service
 - Always On VPN Solution
 - Implementing a Web Server in Windows Server
12. Server and Performance Monitoring in Windows Server
- Windows Server Monitoring Tools
 - Using Performance Monitor
 - Monitor event logs for troubleshooting
13. Update and migration on Windows Server
- AD DS migration
 - Storage Migration Service
 - Windows Server Migration Tools



Expected preparation of the participant

- Basic knowledge of Windows Server system administration, experience and understanding of basic network technologies, such as IP addressing or name resolution.
- Knowledge of basic concepts of storage, high availability, and virtualization
- Basic experience on security best practices.
- Working experience with Windows client operating systems, such as Windows 10 or Windows 11.
- Basic experience in using PowerShell.

To increase the comfort of work and training's effectiveness we suggest using an additional monitor. The lack of additional monitor does not exclude participation in the training, however, it significantly influences the comfort of work during classes.

You can find information and requirements of participation in Distance Learning trainings at:

<https://www.altkomakademia.pl/en/how-it-works/about-courses/>



Training Includes

The product includes:

- Lecture (30%) - the lecturer discusses topics in the form of theory and examples of application
- Demonstrations (10%) - the trainer presents practical examples of how to set up solutions using a lab environment
- Exercises (60%) - practical classes carried out in a laboratory environment, the purpose of which is to consolidate knowledge and develop skills by performing tasks, in accordance with the laboratory scenario.
- The main teaching tools include a PowerPoint presentation and a laboratory environment consisting of virtual machines operating in an Active Directory domain.



Czas trwania

5 dni / 35 godzin

Language

- Lecture: English
- Materials: English
- Lab Environment: English