

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.



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.



Duration

5 days / 35 hours

Language

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