

Active Directory Services with Windows Server 2019/2025

Authorial training. The training is addressed to:

- **Administrator,**
- **HelpDesk**
- **IT specialist**



Training recipients

The training is addressed to:

- For IT professionals and identity administrators. This training is for people who are responsible for managing Active Directory infrastructure on Windows Server systems. Designed for professionals who want to acquire the skills needed to better manage and protect access to data and information, simplify the deployment and management of identity infrastructure, and ensure more secure data access, including configuring key Active Directory features, such as:
- Active Directory Domain Services (AD DS),
- Group Policy,
- Dynamic Access Control (DAC),
- Certificate Services,

Equivalent to the retired MS 10969 training – Active Directory Services with Windows Server.

In particular, the course is intended for:

Information technology (IT) professionals who have basic experience with Active Directory Domain Services (AD DS) and are looking for a single course that will further develop their knowledge and skills using information access and protection technologies in Windows Server. AD DS administrators who want to further develop their skills in the latest access and information protection technologies in Windows Server, system or infrastructure administrators with general experience and knowledge of AD DS who want to build on this foundational knowledge and move to advanced Active Directory technologies in Windows Server.

- Rights Management Services (RMS),
- Federation Services (optional)
- and integration of the on-premises environment with cloud-based technologies such as Microsoft Entra ID.



Benefits

Gaining knowledge and practical skills in managing Active Directory Domain Services in Windows Server. This includes getting acquainted with:

- Available identity management solutions.
- Deploying and administering AD DS on Windows Server.
- Securely deploying AD DS.
- Deploying and configuring AD DS sites and managing replication.
- Implementing and managing Group Policy.
- Managing user settings using Group Policy.
- Securing and ensuring access to data using technologies such as dynamic access control.
- Monitoring, troubleshooting, and ensuring business continuity of AD DS services.
- Implementing a certification authority hierarchy using AD CS and how to manage certification authorities.
- Deploying and managing AD RMS.
- Deploying and managing AD FS (optional)
- Microsoft Entry ID service fundamentals.

This course provides participants with the knowledge and skills to use Active Directory.

It is a counterpart to the discontinued MS 10969 – Active Directory Services with Windows Server course



Training program

- 1: Introduction to AD DS in Windows Server
 - Active Directory Overview
 - What's New in Windows Server?
 - What's New in Active Directory?
 - AD DS Logical Architecture
 - AD DS Physical Architecture
 - AD DS Operations
- 2: Installing AD DS on Windows Server
 - Deploying AD DS
 - FSMO Master Operations

Deploying and Cloning Virtual Domain Controllers
Deploying Domain Controllers in Azure and Synchronizing with Entra ID
3: Administering AD DS
Graphical Administration Consoles
Command Line Tools
Managing Objects with Powershell
Common Administration Tasks
4: AD DS Replication
Overview of AD DS Replication
Configuring AD DS Sites
5: AD DS Security
Domain Controller Security
6: AD DS Monitoring and Recovery
Monitoring AD DS
Managing the AD DS Database
AD DS Backup and Recovery Options
7: Implementing GPO policies
Introduction to Group Policy
Implementing and Administering Group Policy Objects
Troubleshooting Group Policy Object Applications
8: Configuring the environment using Group Policy
Administrative Templates
Configuring Folder Redirection and Scripts
Software Installation
Configuring Group Policy Preferences
9: Dynamic Access Control Configuration
Implementing DAC Components
Configuring DAC
Implementing Access Denial Assistance
10: Deploying and Managing AD CS
Deploying the AD CS Role
Administering Certification Authorities
Managing Certificate Templates
Using Certificates in a Business Environment
11: Deploying and managing AD RMS
AD RMS Overview
Deploying and Managing AD RMS Infrastructure
Configuring AD RMS Content Protection
12: Deploying and managing AD FS (optional)
AD FS Overview
AD FS Deployment

13: Microsoft Entra ID

Microsoft Entra ID Overview

Managing Microsoft Entra ID Accounts

Syncing AD DS Accounts with Microsoft Entra ID



Expected preparation of the participant

- Participants should have at least two years or more experience in the IT field.
- It is recommended to attend courses on Windows Server 2012, 2016, 2019, 2022, 2025 or equivalent knowledge.
- Solid, practical understanding of networking fundamentals, including TCP/IP.
- Solid, practical understanding of Microsoft Hyper-V virtualization fundamentals, understanding of Windows Server security principles.
- Ability to use PowerShell commands (previous participation in PowerShell Fundamentals training is welcome)
- To make your work more convenient and training more effective, we suggest using an additional screen. Lack of such screen does not exclude participation in the training, however it significantly influences working comfort during classes.
- You can find information and requirements of participation in Distance Learning trainings at:
[http://\(https://www.altkomakademia.pl/distance-learning/#FAQ\)](https://www.altkomakademia.pl/distance-learning/#FAQ)



Training Includes

- manual in electronic form available on the platform: <https://www.altkomakademia.pl/>
- access to Altkom Akademia's student portal

The training includes:

- access to the Altkom Akademia student portal
- training conducted in the form of a presentation
- trainer demonstrations
- practical exercises (laboratories)



Duration

5 days / 35 hours

Language

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