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Active Directory in Windows Server 2019/2025 – from configuration to administration

Training intended for individuals responsible for managing the Active Directory infrastructure in Windows Server systems

Training recipients

In particular, the course is intended for:

- 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 access and information 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 foundation and transition to advanced Active Directory technologies in Windows Server.

The course is an equivalent of the retired MS 10969 – Active Directory Services with Windows Server training.

This training is aimed at IT professionals and identity administrators 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 configuration of key Active Directory features such as:

- Active Directory Domain Services (AD DS)
- Group Policy
- Dynamic Access Control (DAC)
- Certificate Services
- Rights Management Services (RMS)
- Federation Services (optional)

as well as integrating an on-premises environment with cloud-based technologies such as Microsoft Entra ID.

Benefits

Acquiring knowledge and practical skills in managing Active Directory Domain Services in Windows Server.
This includes familiarization with:

- Available identity management solutions.
- Deploying and administering AD DS in Windows Server.
- Securely deploying AD DS.
- Deploying and configuring AD DS sites and managing replication.
- Deploying and managing Group Policy.
- Managing user settings using Group Policy.
- Securing and providing 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 managing certification authorities.
- Deploying and managing AD RMS.
- Deploying and managing AD FS services (optional).
- Fundamentals of Microsoft Entra ID.

The course provides participants with the knowledge and skills to effectively use Active Directory.
It is an equivalent of the retired 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
- How AD DS Works?

2: Installing AD DS in Windows Server

- Deploying AD DS

- FSMO Operations Roles
- 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 Administrative Tasks

4: Replication of the AD DS Database

- Overview of AD DS Replication
- Configuring AD DS Sites

5: Securing AD DS

- Domain Controller Security

6: Monitoring and Recovering AD DS

- Monitoring AD DS
- Managing the AD DS Database
- AD DS Backup and Recovery Options

7: Implementing GPOs

- Introduction to Group Policy
- Deploying and Administering GPOs
- Troubleshooting GPO Applications

8: Configuring the User Experience with Group Policy

- Administrative Templates
- Configuring Folder Redirection and Scripts
- Software Installation
- Configuring Group Policy Preferences

9: Configuring Dynamic Access Control (DAC)

- Deploying DAC Components
- Configuring DAC
- Implementing Access Denial Assistance

10: Deploying and Managing AD CS

- Deploying the AD CS Role
- Administering Certificate Authorities
- Managing Certificate Templates
- Using Certificates in a Business Environment

11: Deploying and Managing AD RMS

- Overview of AD RMS
- Deploying and Managing the AD RMS Infrastructure
- Configuring AD RMS Content Protection

12: Deploying and Managing AD FS (Optional)

- Overview of AD FS

- Deploying AD FS

Expected preparation of the participant

Participants should have at least two years of experience or more in the IT field.
It is recommended to have attended courses on Windows Server 2012, 2016, 2019, 2022, 2025, or possess equivalent knowledge.
A solid, practical understanding of networking fundamentals, including TCP/IP.
A solid, practical understanding of Microsoft Hyper-V virtualization fundamentals and knowledge of Windows Server security principles.
Ability to use PowerShell commands (prior participation in a PowerShell Fundamentals course is recommended).
To improve comfort and training effectiveness, it is recommended to use an additional monitor. Lack of an additional monitor is not a contraindication for participation, but it can significantly affect comfort during the sessions.
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

access to Altkom Akademia student portal

Czas trwania

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Language

- Training: English
- Materials: English