

# Active Directory Services with Windows Server 2019/2022

Authorial training. The training is addressed to:

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



## Purpose of the training

The training is addressed to:

- people responsible for managing Active Directory infrastructure in Windows Server 2022
- people who would like to acquire skills necessary for better management and protecting access to data and information, simplifying deployment and identity infrastructure management, as well as providing more secure access to data, including configuration of some core functions of Active Directory service, such as:
  - Active Directory Domain Services (AD DS),
  - group policies,
  - Dynamic Access Control (DAC),
  - certificate services,
  - Rights Management Services (RMS),
  - federation services,
  - as well as integrating local environment with cloud-based technologies such as Windows Azure Active Directory.

The course is particularly addressed to:

- IT specialists who are experienced in Active Directory Domain Services (AD DS) and are looking for one course that will further expand their knowledge and skills with access and information protection technologies in Windows Server 2022.

AD DS administrators who would like to further develop their skills in the latest technologies of access and information protection in Windows Server 2022 systems, system or infrastructure administrators

with general experience and expertise in AD DS, who would like to use their general knowledge and move to more advanced Active Directory technologies in Windows Server 2022, IT specialists



## Benefits of completing the training

Acquiring knowledge and skills from Active Directory Domain Services in Windows Server 2022.

It includes:

- Available solutions for identity management.
- Deploying and administering AD DS in Windows Server 2022.
- Secure AD DS deployment.
- Deploying and configuring AD DS locations and replication management.
- Deploying and managing group policies.
- Managing user settings with group policies.
- The process of implementing CA hierarchy with AD CS and methods of managing CAs.
- Deploying and managing AD RMS.
- Deploying and managing AD FS.
- Securing and providing access to data with technologies such as Dynamic Access Control, working folders and onboarding.
- Monitoring, troubleshooting and providing continuity of AD DS
- Implementing Windows Azure Active Directory.
- The course equips participants with knowledge and skills of using advanced Windows Server 2022 services.
- Equivalent of terminated MS 10969 – Active Directory Services with Windows Server course



## Expected Listener Preparation

The training is addressed to people who have:

- over a year of practical experience in planning and SharePoint maintenance
- two years of experience in other fundamental technologies which SharePoint relies on, including Windows Server 2012 R2 or better, Internet Information Services (IIS), Microsoft SQL Server 2014 or better, Active Directory Domain Services (AD DS) and network infrastructure services.
- An ability to use English materials.
- 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](http://(https://www.altkomakademia.pl/distance-learning/#FAQ)



### Training Language

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



### Training Includes

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

#### **Training method:**

- theory
- demos
- shared projects
- individual laboratories
- 50% theory
- 50% practice



### Duration

5 days / 35 hours

## Training agenda

### 1. Introduction

- Training information
- Training agenda

- Laboratory environment
2. Introduction to AD DS. service in Windows Server 2022
    - Active Directory – overview
    - What's new in Active Directory?
    - Logical structure of AD DS service
    - Physical structure of AD DS service
    - AD DS service activity
  3. Installing AD DS in Windows Server 2022
    - Deploying AD DS
    - Deploying and cloning virtual domain controllers
    - Deploying domain controllers in Windows Azure
  4. Administering AD DS
    - Graphical administration consoles
    - Command line tools
    - Managing objects with PowerShell
    - Typical administration activities
  5. AD base replication
    - Overview of AD DS service replication
    - Configuring AD DS location
  6. Securing AD DS
    - Domain controllers security
    - Operation patterns
  7. Monitoring and restoring AD DS
    - Monitoring AD DS
    - Managing AD DS database
    - Back-up and AD DS restore options
  8. Deploying GPO policies
    - Introduction to group policies
    - Deploying and administering GPO
    - Troubleshooting with Group Policy Objects appliance
  9. Configuring user working environment with group policies
    - Administration templates
    - Configuring folder and script redirection
    - Installing software
    - Configuring group policy preferences
  10. Configuring DAC (Dynamic Access Control)
    - Deploying DAC components
    - Configuring DAC
    - Deploying Access Denied Assistance
  11. Deploying and managing AD CS

- Deploying AD CS roles
- Administering CAs
- Managing certificate templates
- The use of certificates in business environment

#### 12. Deploying and managing AD RMS

- Overview of AD RMS
- Deploying and managing AD RMS infrastructure
- Configuring AD RMS content protection

#### 13. Deploying and managing AD FS

- Overview of AD FS
- Deploying AD FS

#### 14. Deploying Windows Azure Active Directory (as an option)

- Overview of Windows Azure AD
- Managing Windows Azure AD accounts
- Synchronising AD DS accounts with Azure AD