

Managing Windows 2022 Environments with Group Policy

Authorial training. The training is addressed to:

- **Administrator**
- **IT administrator**
- **IT specialist**
- **HelpDesk**



Purpose of the training

The training is addressed to people with the following job positions:

- Administrator,
- IT administrator
- IT specialist
- HelpDesk

The aim of the course:

- Acquaintance with Windows Server 2019/2022 Group Policy Objects (GPO) management fundamentals.

The training is addressed to:

- People who worked with earlier versions Windows Server or would like to administer Windows Server 2019/2022 now.
- Administrators who would like to implement Windows Server 2019/2022 in their own structure.
- IT department employees responsible for managing Active Directory infrastructure and Microsoft Windows 2019/2022 servers.



Benefits of completing the training

- Gaining knowledge and practical skills from centralised approach to managing computers and users' settings in Active Directory environment.
- Gaining knowledge and practical skills from securing Windows system with group policies.
- Gaining knowledge and practical skills from configuring user environment with group policies.
- Gaining knowledge and practical skills from deploying application security with group policies.
- Gaining knowledge and practical skills from managing certificates with group policies.
- Gaining knowledge and practical skills from user state virtualization.
- Gaining knowledge and practical skills from assigning and publishing software packages.
- Gaining knowledge and practical skills from configuring preferences for group policies.
- Gaining knowledge and practical skills from using Windows PowerShell for group policies.

The training in cross-cutting manner discusses the rules of group policies management. It prepares for standalone managing of group policies infrastructure in Active Directory environment.



Expected Listener Preparation

- Experience in working with Windows server systems in at least Windows Server 2012 version, knowledge of Active Directory Domain Services fundamentals.
- Basic knowledge of Windows PowerShell.
- 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: <https://www.altkomakademia.pl/distance-learning/#FAQ>



Training Language

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



Training Includes

- electronic materials available at: <https://www.altkomakademia.pl/>
- access to Altkom Akademia student portal

Training method:

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



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Training agenda

- Organisation's needs concerning centralised managing of computer and user settings.
 - Organisation's needs related to providing assumed security level.
 - Active Directory infrastructure.
 - Network infrastructure components.
 - Designing infrastructure of organisational units in terms of effective appliance of group policies.
2. Introduction to Windows PowerShell.
- Introduction to Windows PowerShell.
 - Group Policy module commands.
 - Additional modules to manage GPO with PowerShell Gallery.
 - Login scripts.
 - Remote management
3. Introduction to Windows PowerShell.
- Configuration management.
 - Configuration management using group policies.
 - New group policies functions introduced in the following versions of Windows Server.
 - Using Windows PowerShell in configuration management.

4. Tools for group policy management.
 - Local and domain policies.
 - Group Policy Management Console (GPMC).
 - GPO refreshing process.
 - Configuring group policies for remote management with Server Manager
5. Introduction to managing and processing group policies.
 - Permissions to manage Group Policy Objects.
 - Group Policy components in Active Directory.
 - Processing group policies.
 - Modification of group policies processing.
6. Providing assumed security level with group policies.
 - Security architecture components for Windows.
 - User account security.
 - Local policy.
 - Advanced inspection.
 - Hardening Windows environment
 - Certificate management using group policies.
 - Security log analysis.
7. Providing application security with group policies.
 - Managing UAC settings.
 - Anti-malware protection.
 - The use of AppLocker for applications constraints.
8. Configuring working stations environment.
 - Types of scripts and controlling their execution.
 - Desktop, Menu Start menu and taskbar settings.
 - Navigation panel settings.
 - Windows components.
 - Printers management.
 - Network settings.
9. User status virtualisation.
 - Configuring folder redirection.
 - Managing Offline files.
 - Deploying User Experience Virtualization.
10. Managing software installation using group policies.
 - Distributing applications using MSI bundles.
 - Application distribution points.
 - Bundle management.
11. Administration templates.
 - Introduction to administration templates.
 - Managing ADMX templates.

- Preparing and managing Central Store.
- Deploying and managing Microsoft software and third party companies using administration templates.

12. Group policy preferences.

- Introduction to group policy preferences.
- Comparing preferences and group policies
- Configuration options of preferences.

13. Troubleshooting and back-up.

- Troubleshooting tools.
- Group's Resultant Set Of Policies (RSOP).
- Event viewer.
- Back-up, restoring, importing and copying Group Policy Objects