

PRBIT – Tasks Windows 2022 – Windows 2 – Tasks for students

Task 4 – Strategies for managing access rights in the file system -- AGP

The necessary fundamental knowledge will be presented at the seminar.

Evaluation: 1b

Log in as Administrator

1. On C: drive, create a UDATA folder
2. In the UDATA folder, create the FINANCE and PERSONAL folders
3. In each folder, create any text file with any content.
4. Create a user2 just as you created a user bearing your first name
5. Create global user groups Finance and Hr
6. Categorize the user:
 1. Your first name for the Finance Department group
 2. User2 to the HR group
7. Through the file system-level privilege setting, set it to
 1. The UDATA folder could be read and written to that folder, all subfolders by server administrators
 2. The contents of the UDATA folder could be VIEWed by users from the Financial and Human Resources groups
 3. The contents of the FINANCNE folder could only be viewed and edited by a user in the Finance Department group
 4. Only a user in the Personnel Department group could view and edit the contents of the PERSONAL FOLDER
8. Document the correctness of your solution with an exam:
 1. From the administrator account, view the contents of all folders created in this task + write to them
 2. From the account Your first name to try to view the contents of the personal folder and document the error message - printscreen that appears
 3. From the user2 account, try to view the contents of the FINANCNE folder and document as in step b.
 4. From the accounts your first name and user2 try to write to the UDAJE folder
 5. From the accounts your first name and user2 try to write to folders where they have write rights

Help: use heredity properties, or turn off these properties if necessary. Use the list of attributes for file operations in MS Windows

Task 4b – Bonus

Perform Task 4 applying the AGDLP sharing strategy.

Rating: 0.5b

Task 5

Rating: 0.5b

Windows Firewall

Study guides:

<http://woshub.com/windows-firewall-settings-group-policy/>

<https://www.mustbegeek.com/configure-windows-firewall-rule-using-group-policy/>

In the case of a corporate network, a server firewall or workstation can be considered the last line of defense (if we consider the defense-in-depth model).

The general task of a firewall, based on certain rules, is to allow or prohibit the passage of data through a computer network. Its main task is to regulate the flow of data between computer networks with different levels of trust. Thus, the function of a firewall is to prevent the penetration of unsolicited data from a computer network with low trust into the computer network with greater confidence.

Windows Firewall is designed to protect a single personal computer or server. The preset firewall configuration is to block all communication from the connected computer network to the client workstation, except for the default services, primarily on the server.

In practice, on Windows Server, in an enterprise environment, the DNS service runs, LDAP - due to the Active Directory directory service, or the DHCP service.

From a user point of view, it is necessary to create exceptions for certain applications, which are then released by the firewall from the network to the client workstation.

1. If an attacker compromises a workstation or server with free internet access (e.g. a laptop of an employee working from home), he has the ability to communicate to the Internet by default using built-in OS tools.
2. **Your task** will be to create a central rule for all devices in the domain through a new Group Policy object named "Firewall – YourName" so that the legitimate Windows OS tool – the program can't connect to the Internet and download a malicious file to your computer.
 1. Find out and briefly (in two lines) describe how certutil can connect to the Internet and what this utility is for (0.1 b)
 2. Create a Group Policy object and set this program to block access to the Internet (0.4b)
3. The result is to present an example of a Group Policy setting in the lecture.