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| **Topic:** | Output users of a security group |

Use Care:  
Active directory does not allow for exports of users without PowerShell. This script allows users to pull a list of all users with a security group for auditing purposes

Requirements:

* Execution policy set to unrestricted
* Access to the active directory server with the account you run the script with.

Process:

MGallehawk: please write me a use case for this script

GitHub Copilot: ### Use Case: Exporting Users of a Security Group to a CSV File

#### Actors:

- \*\*IT Administrator\*\*: The person responsible for managing Active Directory and security groups.

#### Preconditions:

- The script is saved and accessible to the IT Administrator.

- The IT Administrator has the necessary permissions to read Active Directory groups and users.

- PowerShell is installed on the machine where the script will be executed.

- The Active Directory module is installed and imported in the PowerShell session.

#### Main Flow:

1. \*\*Start Script\*\*: The IT Administrator runs the script in PowerShell.

2. \*\*Prompt for Security Group\*\*: The script prompts the IT Administrator to enter the name of the security group.

3. \*\*Check Group Existence\*\*:

- The script checks if the entered security group exists in Active Directory.

- If the group does not exist, the script informs the IT Administrator and prompts for another group name.

4. \*\*Retrieve Users\*\*:

- If the group exists, the script retrieves the users of the security group.

5. \*\*Export to CSV\*\*:

- The script exports the list of users to a CSV file named after the security group.

- The CSV file is saved in the same directory as the script.

6. \*\*Completion\*\*:

- The script informs the IT Administrator that the users have been successfully exported to a CSV file.

- The script terminates.

#### Postconditions:

- A CSV file containing the users of the specified security group is created in the script's directory.

#### Alternative Flows:

- \*\*Invalid Group Name\*\*: If the IT Administrator enters an invalid or non-existent group name, the script will prompt them to enter a valid group name until a valid group is provided.

#### Example:

1. The IT Administrator runs the script.

2. The script prompts: "Enter the security group name".

3. The IT Administrator enters: "HR\_Team".

4. The script checks if "HR\_Team" exists.

5. The script confirms that "HR\_Team" exists.

6. The script retrieves the users of "HR\_Team".

7. The script exports the users to "HR\_Team.csv".

8. The script informs: "Users of HR\_Team have been output to a csv file".

This use case ensures that the IT Administrator can easily export the users of any security group to a CSV file for reporting or auditing purposes.

MGallehawk: please list the process of using this script for my documentation

GitHub Copilot: ### Process of Using the Script

1. \*\*Open PowerShell\*\*:

- Launch PowerShell on your Windows machine.

2. \*\*Navigate to Script Directory\*\*:

- Use the `cd` command to navigate to the directory where the script is saved.

powershell

cd path\to\script\directory

3. \*\*Run the Script\*\*:

- Execute the script by typing its name.

powershell

.\output-users-of-security-group.ps1

4. \*\*Script Execution\*\*:

- The script will display a message: "This script will output the users of a security group to a csv file".

5. \*\*Enter Security Group Name\*\*:

- The script will prompt you to enter the name of the security group.

- Type the name of the security group and press Enter.

6. \*\*Check Group Existence\*\*:

- The script will check if the entered security group exists in Active Directory.

- If the group does not exist, the script will prompt you to enter another group name.

7. \*\*Retrieve and Export Users\*\*:

- If the group exists, the script will retrieve the users of the security group.

- The users will be exported to a CSV file named after the security group in the same directory as the script.

8. \*\*Completion Message\*\*:

- The script will display a message: "Users of [SecurityGroupName] have been output to a csv file".

9. \*\*Locate CSV File\*\*:

- Navigate to the script's directory to find the CSV file containing the users of the specified security group.

### Example

1. Open PowerShell.

2. Navigate to the script directory:

powershell

cd C:\Scripts

3. Run the script:

powershell

.\output-users-of-security-group.ps1

4. Enter the security group name when prompted:

plaintext

Enter the security group name: HR\_Team

5. The script will output:

plaintext

Users of HR\_Team have been output to a csv file

6. Locate the `HR\_Team.csv` file in the `C:\Scripts` directory.