|  |  |
| --- | --- |
| **Topic:** | Script to export users from teams channel |

Document Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Changes Made** | **By (User)** |
| 1.0 | 25/09/2024 | Initial document creation | Mathew Gallehawk |

# Requirements

* Requires powershell reams module, will install if missing
* Powershell in Admin mode.
* execution policy set to unrestricted

# Process

**Steps to Use the Script**

1. **Open PowerShell**: Launch PowerShell with administrative privileges.
2. **Navigate to Script Location**: Change the directory to where the script is located.   
   For example: cd "C:\Path\To\Script"
3. **Run the Script**: Execute the script by typing its name.   
   For example: .\get-users-in-teams-chanel-revised.ps1
4. **If the required modules are not detected follow the prompts to install them**.
5. **Once the modules are installed you will be required to add the name of the group**.
6. **Select a channel from the list of available channels**
7. The users will output to a csv file near this script called group name and chanel name.csv

# Script Review

**Teams Export Users Script**

This PowerShell script, written by Mathew Gallehawk, exports a list of members from a Microsoft Teams channel to a CSV file. Below is a detailed explanation of the script's functionality:

**Functions**

1. **check\_module($module)**
   * Checks if a specified PowerShell module is installed.
   * If the module is not found, it installs the module.
   * Outputs whether the module was found or installed.
2. **module\_setup**
   * Lists the required modules ([PowerShellGet](vscode-file://vscode-app/c:/Users/e103719/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ") and [MicrosoftTeams](vscode-file://vscode-app/c:/Users/e103719/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ")).
   * Checks and installs each required module using [check\_module](vscode-file://vscode-app/c:/Users/e103719/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ").
   * Outputs the status of module installation and setup completion.
3. **retrieve\_team**
   * Prompts the user to enter the name of a Microsoft Teams team.
   * Retrieves the team details based on the entered name.
   * If the team is not found, it prompts the user to re-enter the name.
   * Returns the Group ID and team name of the found team.
4. **get\_chanels($groupID)**
   * Retrieves all channels within a specified team using the Group ID.
   * Creates a list of channels with their details (Channel Number, Channel Name, Channel ID).
   * Returns the list of channels.
5. **select\_chanel($channels)**
   * Displays the list of channels to the user.
   * Prompts the user to select a channel by entering its number.
   * Returns the selected channel's details.
6. **get\_chanel\_members($chanel, $groupID)**
   * Retrieves the members of a specified channel within a team.
   * Returns the list of channel members.
7. **output\_members($members, $fileName)**
   * Formats the list of channel members into a CSV-friendly format.
   * Exports the list of members to a CSV file with the specified file name.
8. **bail**
   * Outputs a thank you message and exits the script.
9. **main**
   * The main function that orchestrates the script's workflow:
     + Sets up the required modules.
     + Connects to Microsoft Teams.
     + Retrieves the team and its channels.
     + Prompts the user to select a channel.
     + Retrieves the members of the selected channel.
     + Exports the members to a CSV file.
     + Disconnects from Microsoft Teams.

**Script Execution**

1. **Module Setup**
   * Ensures that [PowerShellGet](vscode-file://vscode-app/c:/Users/e103719/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ") and [MicrosoftTeams](vscode-file://vscode-app/c:/Users/e103719/AppData/Local/Programs/Microsoft%20VS%20Code/resources/app/out/vs/code/electron-sandbox/workbench/workbench.html" \o ") modules are installed.
2. **Connect to Microsoft Teams**
   * Establishes a connection to Microsoft Teams.
3. **Retrieve Team**
   * Prompts the user to enter the team name and retrieves the team details.
4. **Get Channels**
   * Retrieves all channels within the specified team.
5. **Select Channel**
   * Displays the list of channels and prompts the user to select one.
6. **Get Channel Members**
   * Retrieves the members of the selected channel.
7. **Output Members**
   * Exports the list of channel members to a CSV file.
8. **Disconnect from Microsoft Teams**
   * Disconnects from Microsoft Teams.
9. **Exit**
   * Outputs a thank you message and exits the script.

**Usage**

1. Run the script in PowerShell.
2. Follow the prompts to enter the team name and select a channel.
3. The script will output the members of the selected channel to a CSV file in the script's director