INNES appi AZURE AD Powershell module

Introduction

This set of *Powershell* functions allows to:

- create an Azure Active Directory application, with the New-Application function,
- remove an Azure Active Directory application, with the Remove-Application function.

These functions are defined in the PSAppi PowerShell module stored in the Modules\PSAppi\ directory.

The result of the *Powershell* function is also stored in a JSON file. Edit the file and store preciously the values which could be required for your Appi:

- the clientId value.
- the tenantId value,
- the clientSecret value.

Security

By default, the execution of local *Powershell* scripts are not allowed. You can change their execution rights by changing the *PowerShell* security policy. This modification has to be done once with the Set-ExecutionPolicy *Powershell* function. Your organization may have to change it according to your security rules.

For example, to authorize the execution of all scripts, launch a *Powershell* console with administrator rights, and type:

```
PS > Set-ExecutionPolicy -ExecutionPolicy Unrestricted -scope CurrentUser
```

For further information, look at the cmdlet Set-ExecutionPolicy help page.

If you cannot allow the execution of unsigned local scripts, you can install the provided certificate in the list of authorized root certificates with the command:

```
PS > cd <your_path_to_the_scripts>\Powershell_Innes_Appi\Certificate\
PS > Import-PfxCertificate -FilePath InnesCodeSigningRootCA_1.pfx -
CertStoreLocation cert:\CurrentUser\Root -Password $(ConvertTo-SecureString "1234"
-AsPlainText -Force)
```

To import the .pfx certificate, you can also use the MS-Windows application certmgr.msc, select the Trusted Root Certification Authorities, right clic on ALL Tasks, select the Import item, select the file and enter the password 1234. When ended, close the current Powershell console.

Prerequisite

Install the AzureAD module

Install the AzureAD module with the command below:

```
PS > Install-Module -name AzureAD -scope CurrentUser
```

Dependency

If this message is prompted, enter Y.

```
The NuGet supplier is required to continue

PowerShellGet requires the NuGet vendor, version 2.8.5.201 or later, to interact
with the repositories.

The NuGet provider must be available in "C:\Program

Files\PackageManagement\ProviderAssemblies" or "C:\Users\
<username>\AppData\Local\PackageManagement\ProviderAssemblies".

You can also install the provider NuGet by executing the command "Install-
PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force". Do you want that
PowerShellGet installs and imports the NuGet provider now?

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"):
```

If this message is prompted, enter Y.

```
Unapproved repository
You install the modules from an unapproved repository. If you approve this repository, change its InstallationPolicy value by running the Set-PSRepository command applet. Do you really want to install From PSGallery ?

[Y] Yes [T] Yes for all [N] No [U] No for all [S] Suspend [?] Help (default is "N"):
```

Usage

To use one of the Innes Appi Powershell modules, you have 3 possibilities:

- Either copy the directories under Modules\ into a standard Powershell module installation directory, for example "C:\Program Files\WindowsPowerShell\Modules". Then launch a Powershell console.
- Or redefine the search variable for *Powershell* modules (the \$Env:PSModulePath *Powershell* variable) each time you will use theses functions. In this case, launch a *Powershell* console, and type the line below, adapting it to your path. Each time you will launch a new *Powershell* console, you will have to enter it again.

For example:

```
PS > $Env:PSModulePath="$Env:PSModulePath;
<your_path_to_the_scripts>\Powershell_Innes_Appi\Modules"
```

• Or redefine the search variable for *Powershell* modules in the Windows environment variables. For that, add the path <your_path_to_the_scripts>\Powershell_Innes_Appi\Modules to the environment variable PSModulePath. Then, launch afterwards a *Powershell* console.

To use the functions or get help, you must then import the module(s) with the Import-Module function. Example:

```
PS > Import-Module PSAppi
```

Depending on how your get the scripts, you may have this following warning:

Security Warning Run only scripts that you trust. While scripts from the Internet can be useful, this script can potentially harm your computer. Do you want to run \server\scripts\my.ps1? [D] Do not run [R] Run once [S] Suspend [?] Help (default is "D"):

To avoid this message, you can unblock the script files (to do only once):

```
PS > cd <your_path_to_the_scripts>\Powershell_Innes_Appi\
PS > dir -Recurse | Unblock-File
```

The Get-Command function allows you to list the functions defined in a module. Example:

```
PS > Get-Command -Module PSAppi
```

Answer example:

```
CommandType Name Version Source
-----
Function New-AppiAADApplication 1.10.10 PSAppi
Function Remove-AppiAADApplication 1.10.10 PSAppi
```

You can get help on each function of the module by using the standard cmdlet Get-Help with options:

- -detailed,
- -full,
- -examples.

Example:

```
PS > Get-Help -detailed New-AppiAADApplication
```

Example to create an Azure Active Directory EWS application

```
PS > $signmeeting = New-AppiAADApplication -appname "SignMeeting" -authorizations "ews"
```

Warning: clicking on a Powershell window can suspend the command. In this case click again in the window to resume the command.

A login popup is displayed . Enter once your EWS credentials. This message is then displayed in a *Powershell* context.

```
You must log into an administrator account of your organization and grant the necessary permissions.

A consent request will be sent within 30 seconds in your browser.
```

After 30 seconds, a login popup should be prompted (https://login.microsoftonline.com/) automatically in your default Web browser. Enter again your EWS credentials. A new popup message with the *Permission requested, review for your organization* title is prompted in your Web browser. Press on the *Accept* button. Then a message is displayed in your Web browser showing that the consent is successful: *Success of the consent request*.

You can view the data of the created application by typing the following command:

```
PS > $signmeeting
                         Value
Name
----
clientId
                         XXXXXXXX-XXXX-XXXX-XXXXXXXXXXXXX
objectId
                         XXXXXXXX-XXXX-XXXX-XXXXXXXXXXXXX
spId
                         XXXXXXXX-XXXX-XXXX-XXXXXXXXXXXXX
name
                         SignMeeting
tenantId
                         XXXXXXXX-XXXX-XXXX-XXXXXXXXXXXX
clientSecret
```

The result of the *Powershell* function is also stored in a JSON file: SignMeeting.json. Edit the file and store preciously the values required for your Appi:

- the clientId value,
- the tenantId value,
- the clientSecret value.

Example to delete an Azure Active Directory application

```
PS > Remove-AppiAADApplication -appname "SignMeeting"
```

A login popup is opened. Enter your EWS credentials.