Azure MFA pre-registering users with Graph SDK For Powershell

# Pre-Requisites

*Our recommended best practice is to have users register individually to ensure accuracy of the MFA registration data.*

* Open PowerShell and run command below to install required SDK module

|  |
| --- |
| Install-Module -Name Microsoft.Graph.Identity.SignIns |

* Import New-MgUserAuthenticationPhoneMethod function

|  |
| --- |
| Import-Module Microsoft.Graph.Identity.Signins -Verbose -Function New-MgUserAuthenticationPhoneMethod |

* Create CSV file containing UserPrincipalName and PhoneNumber. Phone number needs to be formatted “+(country code) (phone number no spaces) e.g. +1 2125555555

# 1 Create Authentication Phone Entries

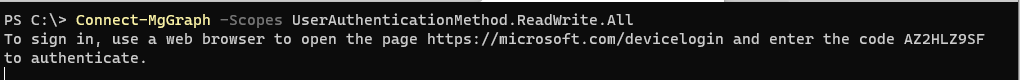
*Appendix A has a sample powershell script that performs all of the below steps*

## 1.1 Login to Azure AD with required privileges

* Open PowerShell window
* Navigate to the location where you saved your csv file
* Enter Graph login command

|  |
| --- |
| Connect-MgGraph -Scopes UserAuthenticationMethod.ReadWrite.All |

* After command is executed PowerShell window will display link to device login page and a device code to enter



* Use provided link to open device login page and enter device code, you will be redirected to the Azure User login and when completed presented with consent page:

Graphical user interface, text, application, email

Description automatically generated

Review consent details and accept, close browser window after process is complete.

## 1.2 Set Graph API version

* Type and enter following line

|  |
| --- |
| Select-MgProfile -Name  beta |

## 1.3 Import user CVS data into a PowerShell object

* Go back to PowerShell window you opened in step 1[.](#_1.1_Login_to)1 and type following and hit enter:

|  |
| --- |
| $userData = import-csv .\users.cvs |

*You can use path your own csv file instead of ‘.\users.csv’*

## 1.4 Set Authentication Phone number for users in the list

|  |
| --- |
| $userData | ForEach-Object{      New-MgUserAuthenticationPhoneMethod -UserId $\_.UserPrincipalName -PhoneNumber $\_.PhoneNumber -PhoneType mobile  } |

Each time command is run it will output data with successful update.

*For better performance you can use PowerShell 7 and* [*Foreach-Object -parallel*](https://devblogs.microsoft.com/powershell/powershell-foreach-object-parallel-feature/) *switch. Use throttleLimit switch set to Number of CPU cores – 1 for best performance*

# Appendix A PowerShell Script to add new Authentication Phone Records

<#

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    the Premier Customer Services Description.

#>

#Requires -Module Microsoft.Graph.Identity.Signins

#Requires -PSEdition Core

Import-Module Microsoft.Graph.Identity.Signins -Verbose -Function New-MgUserAuthenticationPhoneMethod

$userData = Import-Csv .\users.csv

Connect-MgGraph -Scopes UserAuthenticationMethod.ReadWrite.All

Select-MgProfile -Name  beta

foreach ($user in $userData)

{

    New-MgUserAuthenticationPhoneMethod -UserId $user.UserPrincipalName -PhoneNumber $user.PhoneNumber -PhoneType mobile

}

# Appendix B CSV Sample Data

