

Update SharePoint Online user profile properties via PowerShell PnP using ClientID and Client Secret

You must be a SharePoint Online administrator to complete these steps

Step 1: Register a new application in SharePoint Online

Browse to the SharePoint Online application registration portal. Replace **<your domain tenant>** with your domain tenant name

https://<your domain tenant>-admin.sharepoint.com/_layouts/15/appregnew.aspx

Do the following at the SharePoint Online application registration portal

Create

Cancel

App Information

The app's information, including app Id, secret, title, hosting url and redirect url.

Client Id:

9x36cdo1-cs0v-5xyz-1234-5678c396ae59

Generate

Click this generate button to create the Client Id

Client Secret:

asxdfgwergsdfgsdfghfsdsdfgsdfgwertrev

Generate

Click this generate button to create the Client Secret

Title:

UpdateUserProfile

Enter a name for your application registration

App Domain:

www.localhost.com

Example: "www.contoso.com"

This should always be www. localhost.com

Redirect URI:

https://www.localhost.com

Example: "https://www.contoso.com/default.aspx"

This should always be https://www.localhost.com

Create

Cancel

Click the Create button to create and register the SharePoint Online application

Copy the Client Id and the Client Secret values. You will need this in the PowerShell script

The app identifier has been successfully created.

Client
Id: 9x36cd01-cs0v-5xyz-1234-5678c396ae59
Client
Secret: asxdfgwergsadsfgdfghfsdsdsdfgsdfgwertrev
Title: UpdateUserProfile
App
Domain:www.localhost.com

Redirect
URI: https://www.localhost.com

OK

Step 2: Set the permissions (AppPermissionRequests) scope to allow the application to read and modify user profile properties and configure SharePoint Online to Trust the new permission scope

Browse to the SharePoint Online application permission request portal. Replace **<your domain tenant>** with your domain tenant name

https://<your domain tenant>-admin.sharepoint.com/_layouts/15/appinv.aspx

Enter the Client Id (from above) into the "App Id and Title" field and then click the "Lookup" button. For some reason, the Id is now called "App Id" instead of "Client Id", typical Microsoft

The screenshot shows the 'App Id and Title' section of the form, which is highlighted with a red rectangle. This section includes a text input field for 'App Id' containing the value '9x36cdo1-cs0v-5xyz-1234-5678c396ae59' and a blue 'Lookup' button. Above this section are 'Create' and 'Cancel' buttons. Below the 'App Id and Title' section, there are input fields for 'Title' (containing 'UpdateUserProfile'), 'App Domain' (containing 'www.localhost.com' with an example 'www.contoso.com'), and 'Redirect URL' (containing 'https://www.localhost.com/' with an example 'https://www.contoso.com/default.aspx'). At the bottom of the form is the 'App's Permission Request XML' section, which includes a large text area for the XML and another 'Create' and 'Cancel' button.

The XML permissions described.

<http://sharepoint/content/tenant> - this allows full control to the SharePoint tenant

<http://sharepoint/content/sitecollection> - this allows full control to the SharePoint site collection

<http://sharepoint/social/tenant> - this is the piece that grants full read/write user profile access

Copy and paste this XML into the "App's Permission Request XML" field and then click the "Create" button.
Do not change the URL to your domain/tenant, keep them as <http://sharepoint/>

```
<AppPermissionRequests AllowAppOnlyPolicy="true">  
  <AppPermissionRequest Scope="http://sharepoint/content/tenant" Right="FullControl" />  
  <AppPermissionRequest Scope="http://sharepoint/content/sitecollection" Right="FullControl" />  
  <AppPermissionRequest Scope="http://sharepoint/social/tenant" Right="FullControl" />  
</AppPermissionRequests>
```

Create

Cancel

App Id and Title
The app's identity and its title.

App Id:

9x36cdo1-cs0v-5xyz-1234-5678c396ae59

Lookup

Title:

UpdateUserProfile

App Domain:

www.localhost.com

Example: "www.contoso.com"

Redirect URL:

https://www.localhost.com/

Example: "https://www.contoso.com/default.aspx"

App's Permission Request XML
The permission required by the app.

Permission Request XML:

<AppPermissionRequest
Scope="http://sharepoint/content/sitecollection" Right="FullControl" />
<AppPermissionRequest
Scope="http://sharepoint/social/tenant" Right="FullControl" />
</AppPermissionRequests>

Create

Cancel

SharePoint Online will then prompt you to Trust the application permissions. Click the "Trust" button to continue


Do you trust UpdateUserProfile?

Let it have full control of this site collection.

Let it share its permissions with other users.

Let it access basic information about the users of this site.

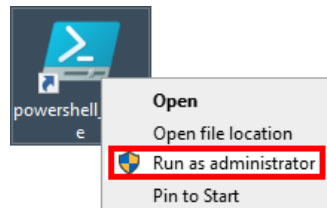
Allow application access to user profiles: Full Control



UpdateUserProfile

Step 3: Write the PowerShell PnP script that will be used to update SharePoint Online user profile properties

Launch the PowerShell ISE and "administrator"



For PowerShell you should set the execution policy and have the PnP.PowerShell and PowerShellGet modules installed

```
set-executionpolicy unrestricted
Install-Module -Name PnP.PowerShell -AllowPrerelease -AllowClobber -Force
Install-Module -Name PowerShellGet -Repository PSGallery -Force
```

Step 4: The Code

Replace `<your domain tenant>` with your domain tenant name
Replace `<firstname.lastname>@<yourcompany>` with the Azure/365 account you wish to update

```
cls

$theSharePointPropertyToUpdate = "SPS-JobTitle" # the SharePoint Online property to update
$theNewPropertyValue = "Awesome Manager" # the new value for the SharePoint Online property

# this value must be single quote - if double quote then the URI format can not be determined
$SharePointAdminSiteURL = 'https://<your domain tenant>-admin.sharepoint.com/'

# the Client/App Id from SharePoint application registration and trust
$ClientAppIdFromSharePoint = "9x36cd01-cs0v-5xyz-1234-5678c396ae59"

# the Client/App Secret Value SharePoint application registration and trust
$ClientAppSecretFromSharePoint = "asxdfgwersadfgdfghfsdsdsdfgsdfgwertrev"

# make your Pnp SharePoint trusted application connection
Connect-PnPOnline -Url $SharePointAdminSiteURL -ClientId $ClientAppIdFromSharePoint -ClientSecret
$ClientAppSecretFromSharePoint -WarningAction Ignore

# get the user profile properties of an Azure account
Get-PnPUserProfileProperty -Account "i:0#.f|membership|<firstname.lastname>@<yourcompany>.com" -
WarningAction Ignore

# set the value of a SharePoint user profile field
Set-PnPUserProfileProperty -Account "i:0#.f|membership|<firstname.lastname>@<yourcompany>.com" -
Property $theSharePointPropertyToUpdate -Value $theNewPropertyValue
```