

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

The screenshot shows the 'App Information' form in the SharePoint Online application registration portal. At the top are 'Create' and 'Cancel' buttons. The form includes fields for 'Client Id' (with a 'Generate' button and a red instruction to click it), 'Client Secret' (with a 'Generate' button and a red instruction to click it), 'Title' (with a red instruction to enter a name), 'App Domain' (with a red instruction to use www.localhost.com), and 'Redirect URI' (with a red instruction to use https://www.localhost.com). At the bottom are 'Create' and 'Cancel' buttons, with a red instruction to click the 'Create' button to register the application.

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

The screenshot shows a confirmation dialog titled 'The app identifier has been successfully created.' It displays the 'Client Id' and 'Client Secret' values, which are highlighted with red boxes. Below these are the 'Title', 'App Domain', and 'Redirect URI' values. At the bottom is an 'OK' button.

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 SharePoint Online application permission request portal. At the top are 'Create' and 'Cancel' buttons. The 'App Id and Title' section is highlighted with a red box. It contains a text field for 'App Id' with the value '9x36cdo1-cs0v-5xyz-1234-5678c396ae59' and a 'Lookup' button. Below this are fields for 'Title' (containing 'UpdateUserProfile'), 'App Domain' (containing 'www.localhost.com'), and 'Redirect URL' (containing 'https://www.localhost.com/'). At the bottom is a section for 'App's Permission Request XML' with a large text area and a 'Create' 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>
```

The screenshot shows a web form for creating an application. At the top, there are two blue buttons: 'Create' and 'Cancel'. Below them, the form is divided into sections. The 'App Id and Title' section includes a text field for 'App Id' (containing '9x36cdo1-cs0v-5xyz-1234-5678c396ae59'), a 'Lookup' button, and a 'Title' field (containing 'UpdateUserProfile'). The 'App Domain' section has a text field (containing 'www.localhost.com') and an example: 'www.contoso.com'. The 'Redirect URL' section has a text field (containing 'https://www.localhost.com/') and an example: 'https://www.contoso.com/default.aspx'. The 'App's Permission Request XML' section is highlighted with a red box and contains a text area with the XML code. At the bottom, there are two blue buttons: 'Create' and 'Cancel', with the 'Create' button also highlighted by a red box.

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

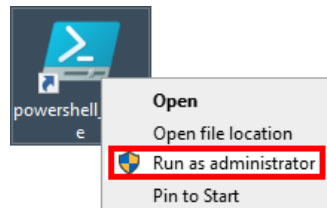
Trust It Cancel



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
```