

Registering and Configuring OneGradePlus with MS-OAuth (Entra)

This guide describes the registering and configuration of the OneGradePlus Web Application and Email configuration via MS Exchange Online integrated within Entra.

Contents

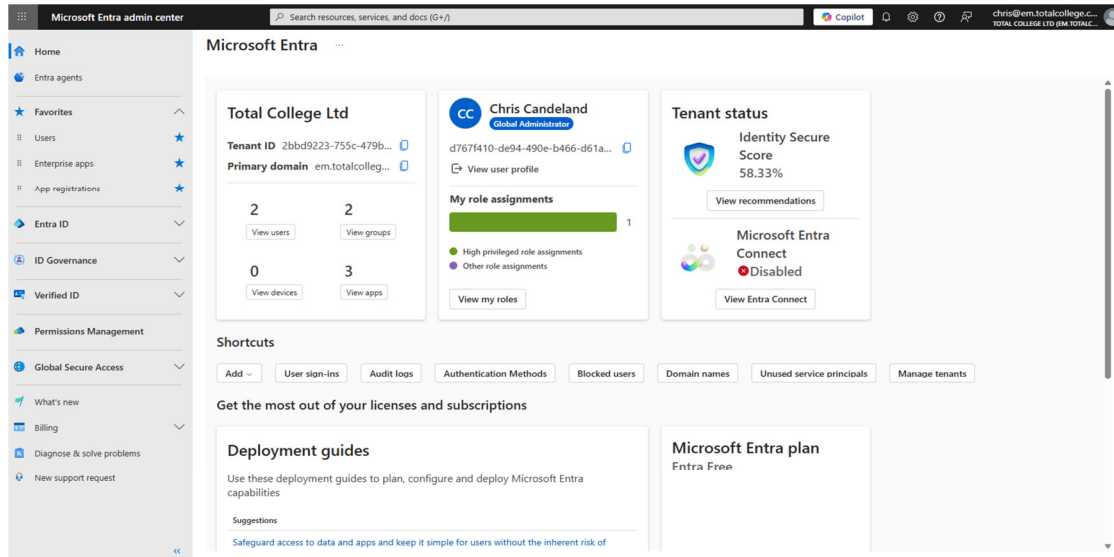
- Registering and Configuring OneGradePlus with MS-OAuth (Entra)..... 1
 - Registering the OneGradePlus Application within a Tenant 2
 - Add Security to the Registered OneGradePlus Application 4
 - Create a Secret 5
 - Registering a Certificate 6
 - Using a PFX file 6
 - Using a PFX64 file (a PFX file that is further encoded to Base64)..... 6
 - Setting the URI Redirection..... 7
 - API Permissions 9
 - Configuring the OneGradePlus Entra Application to send emails via Exchange Online 11

Total College Ltd. shall, under no circumstances, be liable for any damages or losses arising out of the use or inability to use this software product or any other software product used in conjunction with this software product.

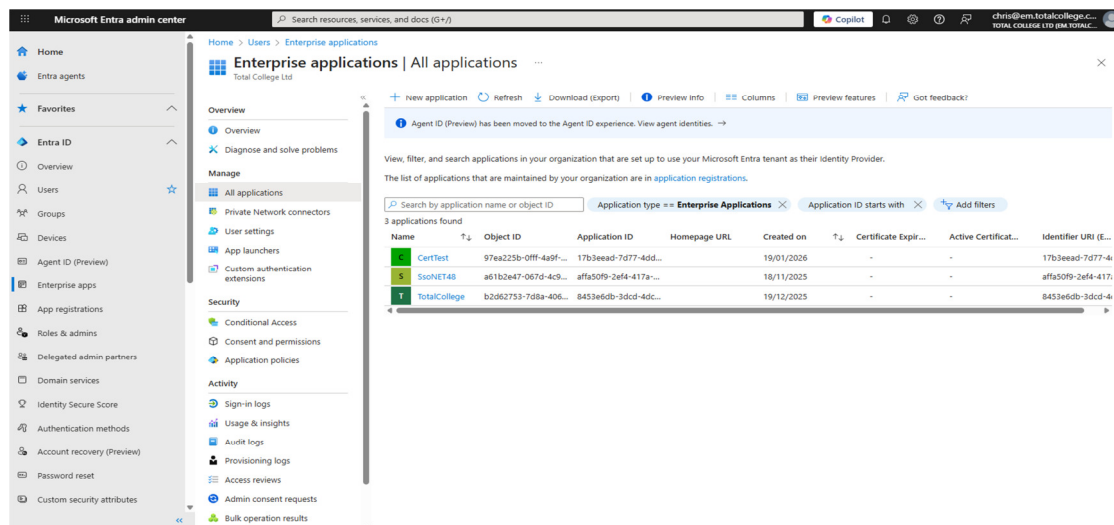
Registering and Configuring OneGradePlus with MS-OAuth (Entra)

Registering the OneGradePlus Application within a Tenant

Go to <https://entra.microsoft.com> and log in as an administrator. At this point we are assuming that a Tenant has been created that is suitable for OneGradePlus to be registered within.

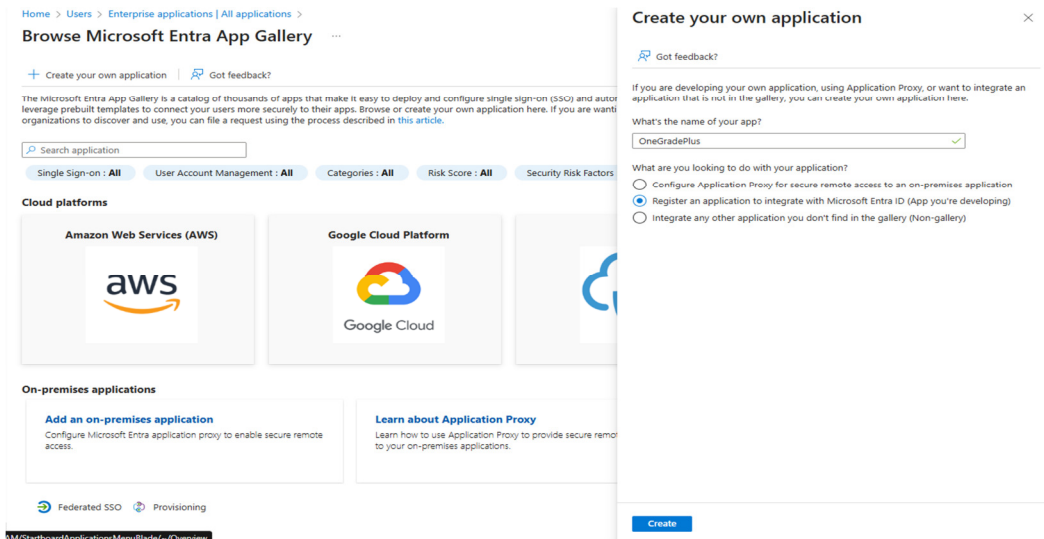


Select Enterprise Apps from the menu on the left side of the screen:



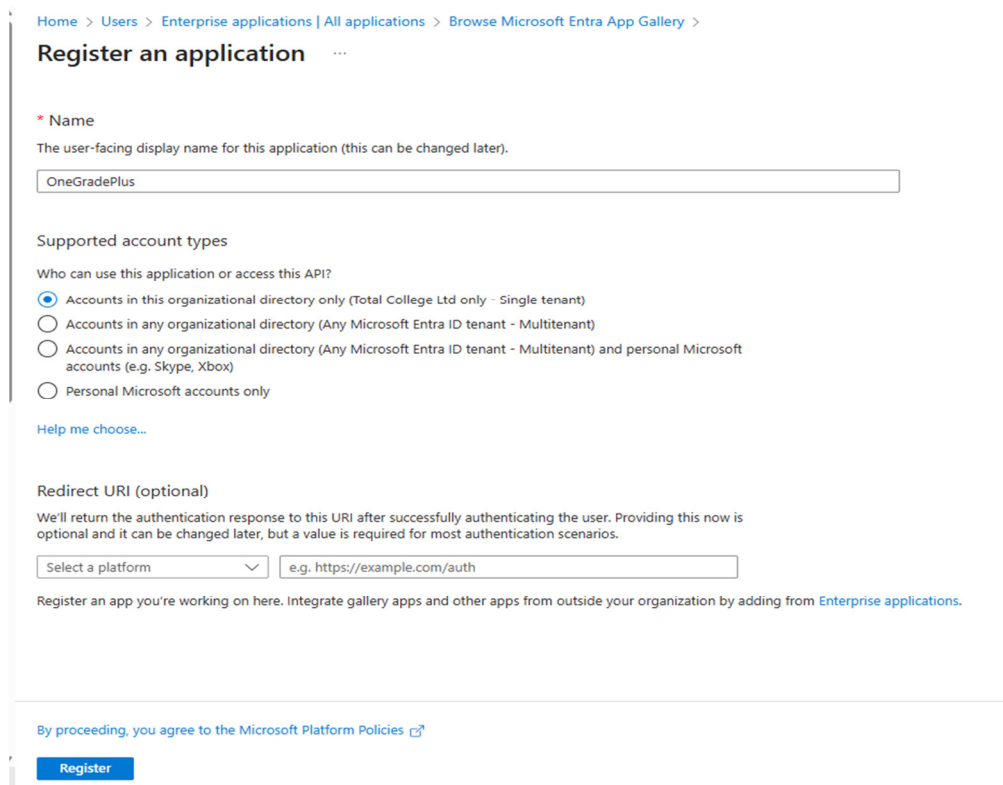
On the All Applications screen, press **New Application** in the top left of the screen. On the following screen, press **Create Your Own Application** and enter the name of the Application as OneGradePlus:

Registering and Configuring OneGradePlus with MS-OAuth (Entra)



Choose the option to “Register an application to integrate with Microsoft Entra ID (app you’re developing)”. Then press the **Create** button.

The “Register an application” screen will then be displayed. Select the applicable Supported Account Type. There is no need to complete the Redirect URI information at this point. Press the **Register** button.



Home > Users > Enterprise applications | All applications > Browse Microsoft Entra App Gallery >

Register an application

* Name

The user-facing display name for this application (this can be changed later).

OneGradePlus

Supported account types

Who can use this application or access this API?

- ☒ Accounts in this organizational directory only (Total College Ltd only - Single tenant)
- ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
- ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- ☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Select a platform

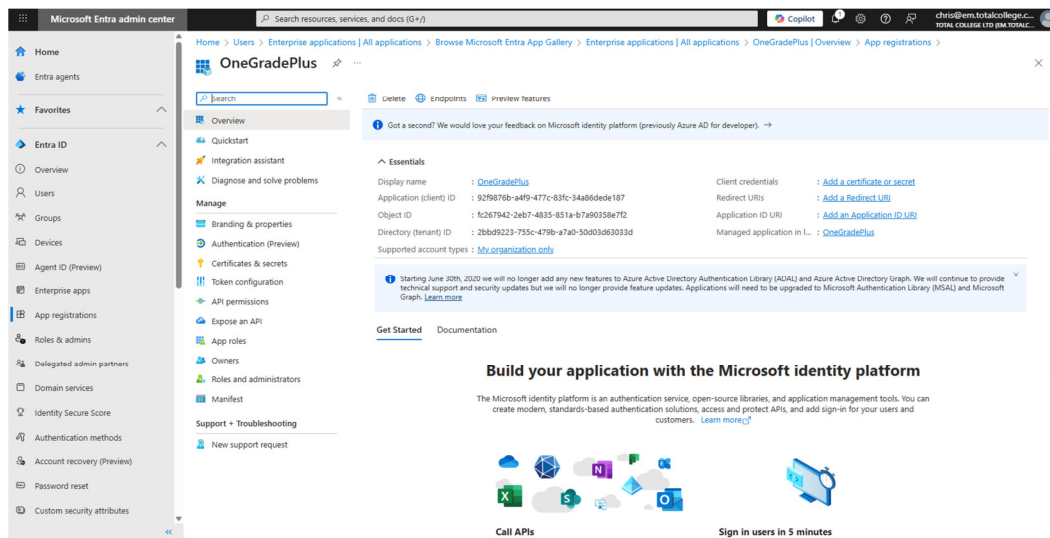
Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

After pressing the **Register** button, the OneGradePlus application will appear in the list of App Registrations (menu item on left side of screen). Click on the OneGradePlus application (Overview menu item)

Registering and Configuring OneGradePlus with MS-OAuth (Entra)

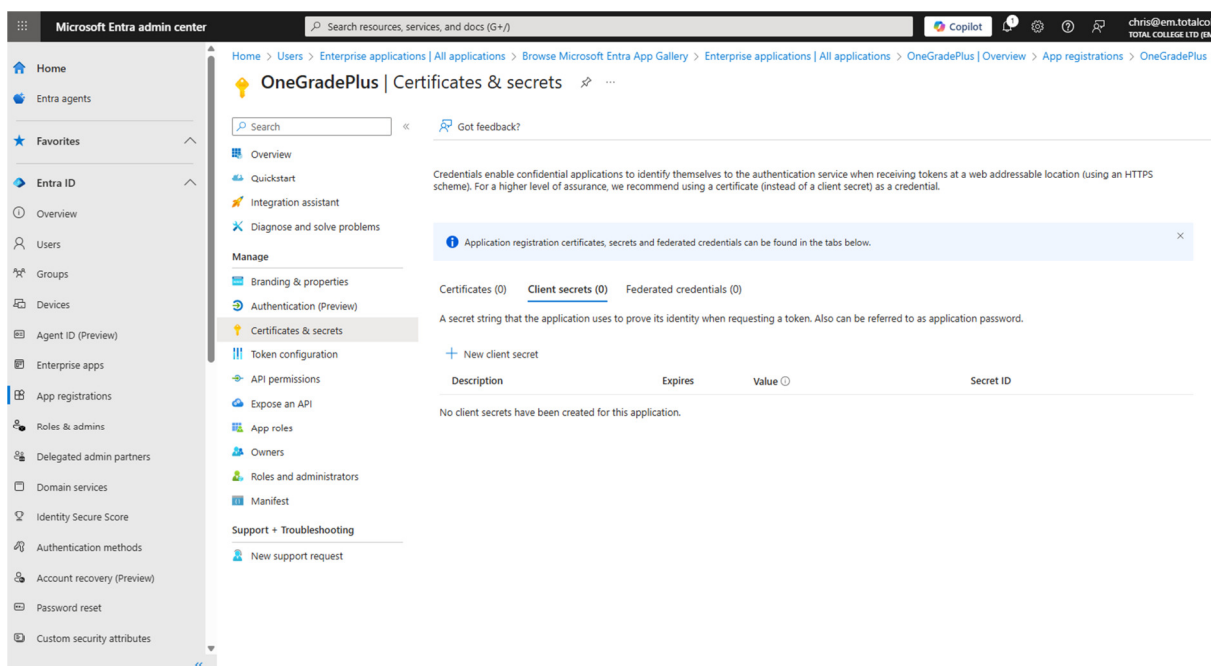


This screen displays the TenantID and the ApplicationID that are necessary within the IIS Application Settings for the OneGradePlus Web Application (prefixed OGP_AUTH).

Add Security to the Registered OneGradePlus Application

This step will add a security Certificate or Secret to the registered within the OneGradePlus Application within the Tenant. Note that you must have already purchased a certificate from a Certification Authority such as Thawte, DigiCert etc.

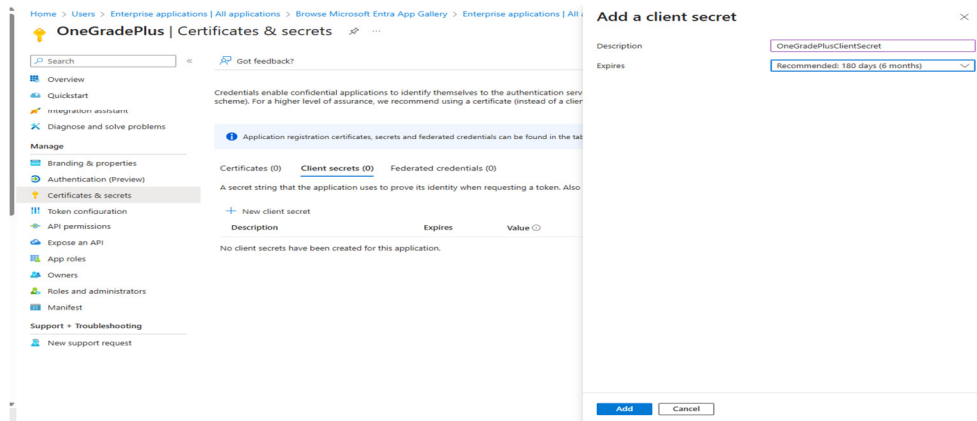
Within the App registrations, select the OneGradePlus Application and select Certificates & secrets from the menu on the left:



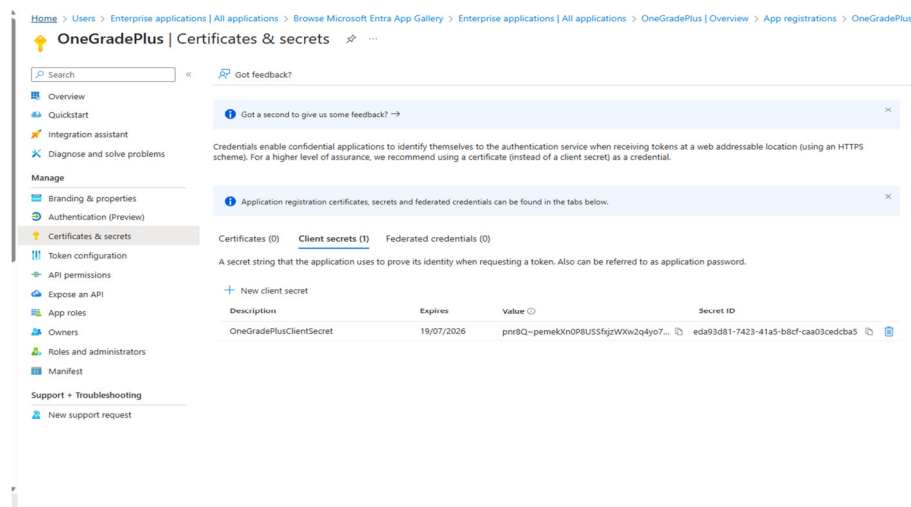
Registering and Configuring OneGradePlus with MS-OAuth (Entra)

Create a Secret

Choose the Client Secrets tab followed by the **New client secret** button. Enter a Description called OneGradePlusClientSecret. Choose an expiry period to fit with college security requirements. Press the **Add** button.



At this point, the Value of the Secret is displayed. You **MUST** copy this value immediately. You will not see this value subsequently after the screen has refreshed.



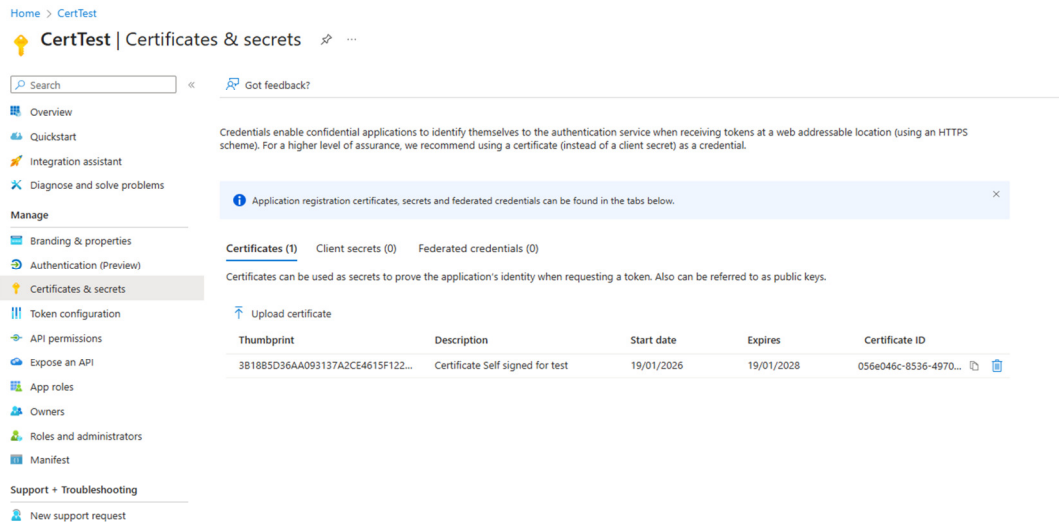
After refreshing the Client secrets page, the Value is obscured and cannot be copied. If you have not noted the value, you will need to remove and recreate the secret.

Certificates (0) Client secrets (1) Federated credentials (0)			
A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.			
+ New client secret			
Description	Expires	Value	Secret ID
OneGradePlusClientSecret	19/07/2026	pnR*****	eda93d81-7423-41a5-b8cf-caa03cedcba5

Registering and Configuring OneGradePlus with MS-OAuth (Entra)

Registering a Certificate

Your Certification Authority will provide you with a certificate file (.cer, .crt, .pem) that you can upload into the OneGradePlus App Registration within Entra. This is completed on the Certificates & Secrets screen - Certificates tab. The uploaded certificate will be shown in the list. If you already have a certificate for IIS to use secure sockets (https:), you can use that.



Alongside the certificate is a Thumbprint. This Thumbprint should be copied into the IIS Application Setting OGP_OAUTH_CERTIFICATEDATA. Ensure that if you are using this method, the OGP_OAUTH_CERTIFICATEVALUE value is CERT.

Using a PFX file

If you wrap your certificate within a .pfx file, you do not need to use the Certificate Thumbprint. Upload your certificate file into Entra as described in the previous section. Set the IIS Application Setting OGP_OAUTH_CERTIFICATEVALUE value to be PFX. In the OGP_OAUTH_CERTIFICATELOCATION Application setting, provide the location and name of the .pfx file (local to the IIS Server) and the OGP_OAUTH_CERTIFICATEPASSORD value if used.

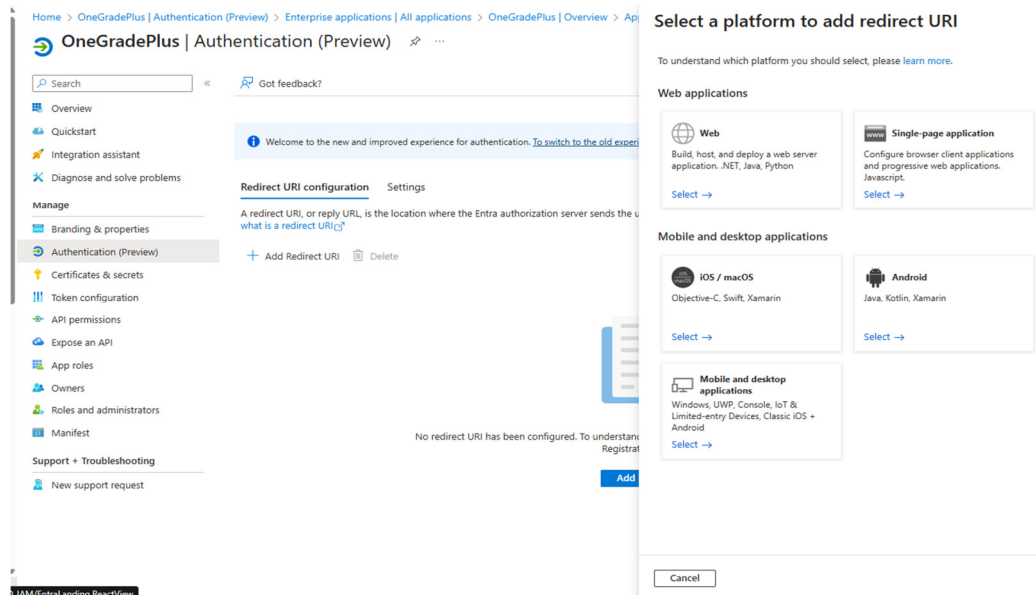
Using a PFX64 file (a PFX file that is further encoded to Base64)

If you wrap your certificate within a .pfx64 file, you do not need to use the Certificate thumbprint. Upload your certificate file into Entra as described in the previous section. Set the IIS Application Setting OGP_OAUTH_CERTIFICATEVALUE value to be PFX64. In the OGP_OAUTH_CERTIFICATELOCATION Application setting, provide the location and name of the .pfx64 file (local to the IIS Server) and the OGP_OAUTH_CERTIFICATEPASSORD value if used.

Registering and Configuring OneGradePlus with MS-OAuth (Entra)

Setting the URI Redirection

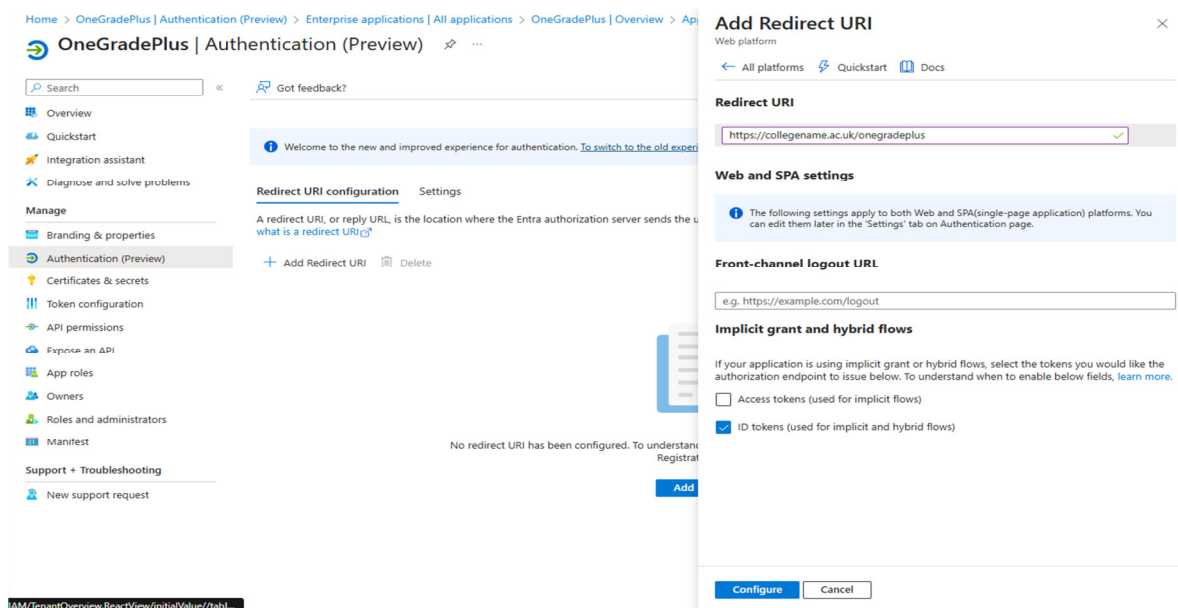
Within the OneGradePlus Application, select Authentication (Preview) from the menu. Select the “Redirect URI Configuration” tab. And press the **Add Redirect URI** button.



Select the **Web** option.

Enter the Redirect URI textbox. For example: [https://\[collegename.ac.uk\]/OneGradePlus/](https://[collegename.ac.uk]/OneGradePlus/). Note this must be https.

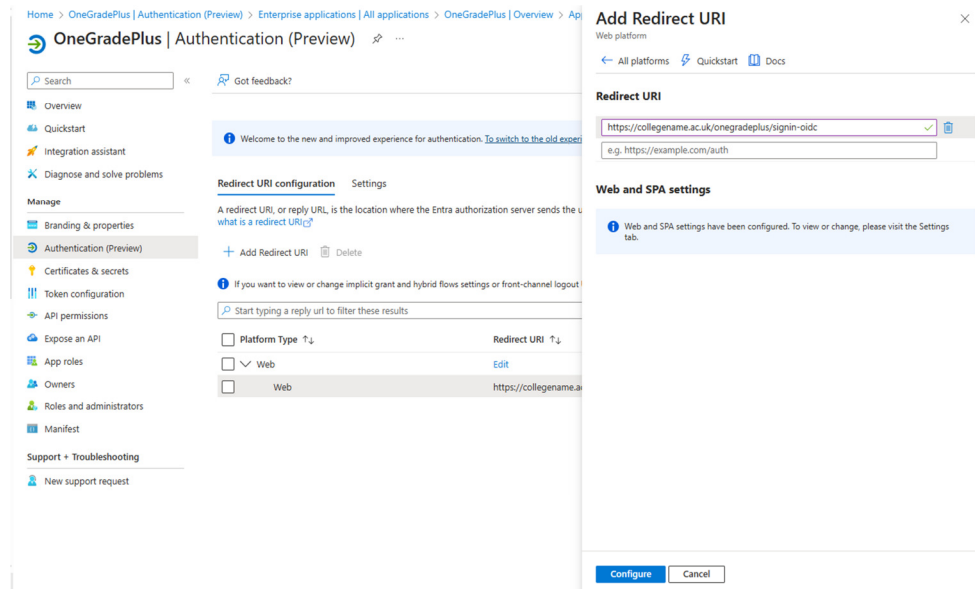
Tick the “ID tokens (used for Implicit and hybrid flows)” checkbox. Then press the **Configure** button.



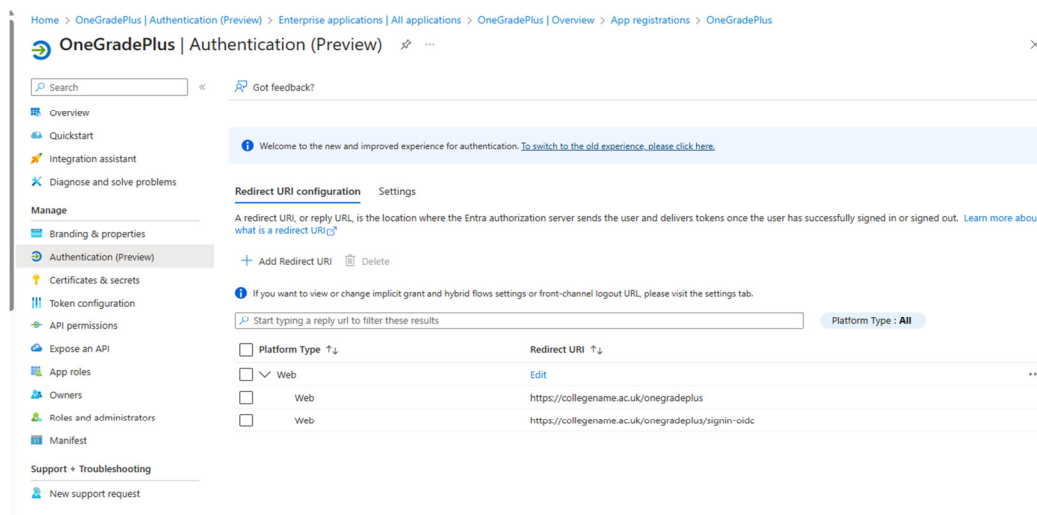
Registering and Configuring OneGradePlus with MS-OAuth (Entra)

A second Redirect URI now needs to be entered. Note this must be https.

This should be: `https://[collegename.ac.uk]/OneGradePlus/signin-oidc/`.

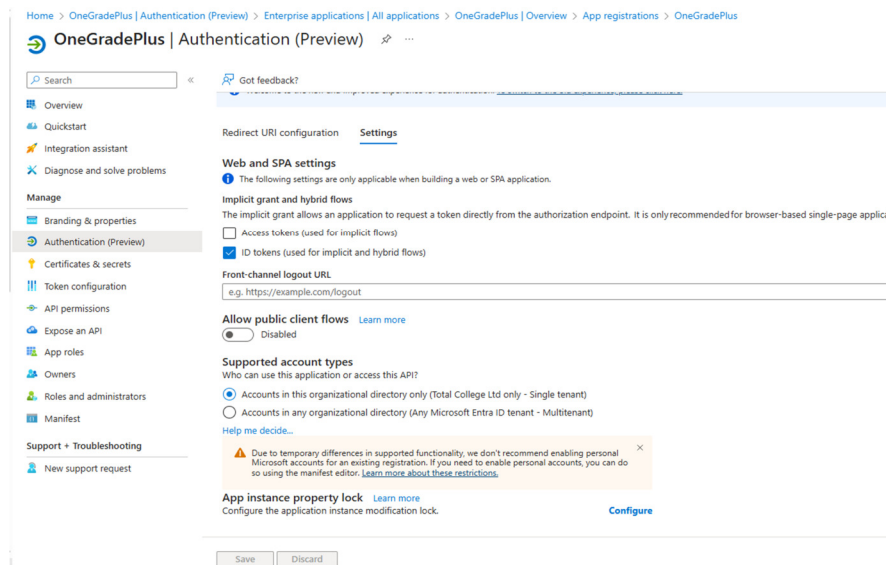


You will see the two URI redirections displayed:



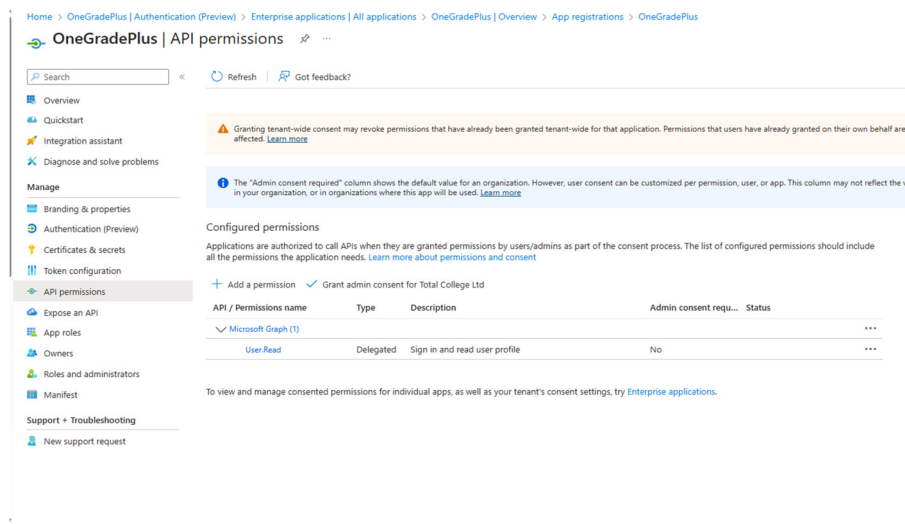
Registering and Configuring OneGradePlus with MS-OAuth (Entra)

The Settings tab allows the Authentication settings to be changed at any time:



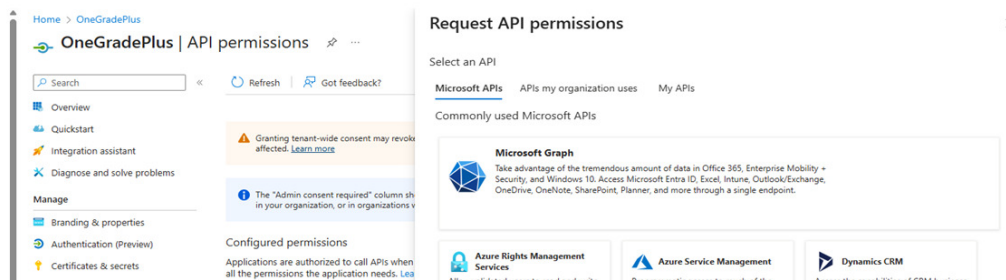
API Permissions

The only permission that OneGradePlus requires for logging in is User.Read. This should have been assigned automatically. If not you must add it using the **Add a permission** button from the API Permissions screen within the OneGradePlus Application screen.

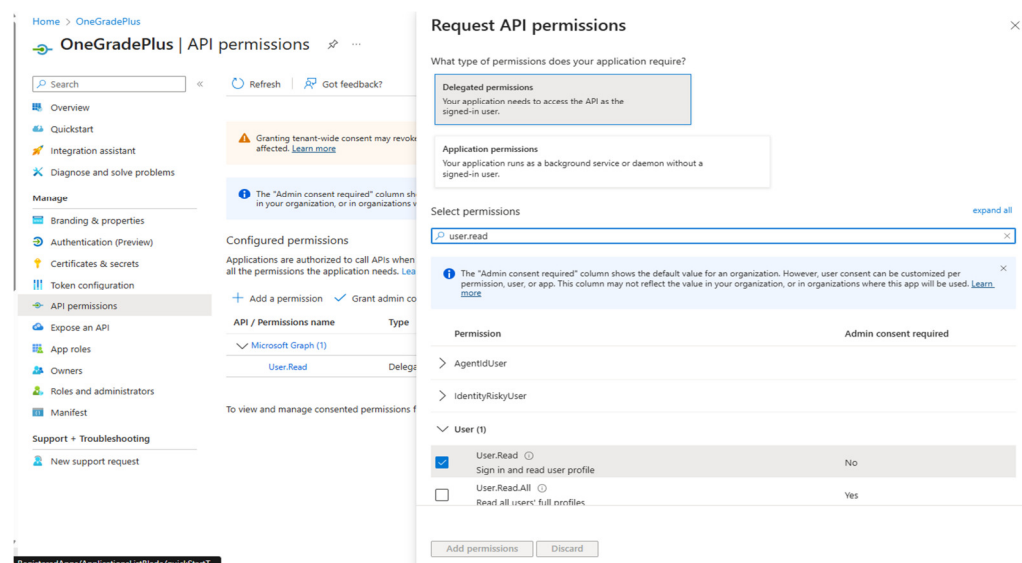


Select the **Microsoft Graph** option:

Registering and Configuring OneGradePlus with MS-OAuth (Entra)



Then select **Delegated permissions**. Search for User.Read, select it from the list and press **Add Permissions**:



With IIS set up with the correct Tenant, Application, and security settings, you will be able to start the OneGradePlus Web Application and it will prompt you for MS Entra credentials (unless you have already logged into another Entra App)

Within the OneGrade Windows Application, open the System Setting Values screen (Main Menu | System Maintenance | System Settings - Values). Ensure that the System Value **OneGradePlusAuthenticationType** is set to the correct OneGradePlus authentication method as specified in IIS (FORMS, WINDOWS, OAUTH).

Registering and Configuring OneGradePlus with MS-OAuth (Entra)

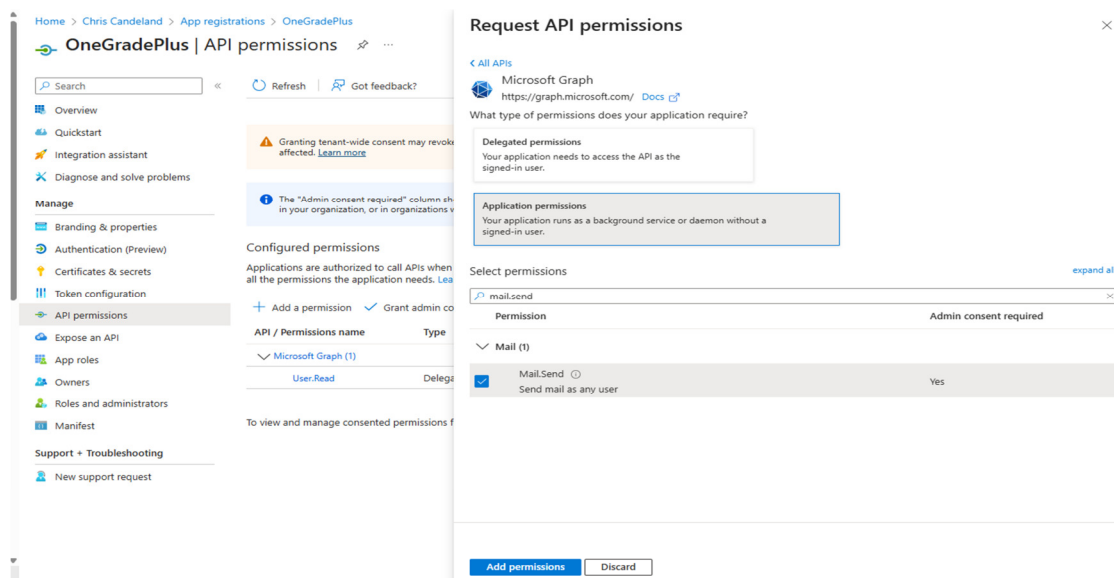
Configuring the OneGradePlus Entra Application to send emails via Exchange Online.

Ensure you have a user account within the Tenant that can send emails (you may wish set up a user account called for example OneGradePlusEmailSender – with an email address OneGradePlus@[collegename].ac.uk).

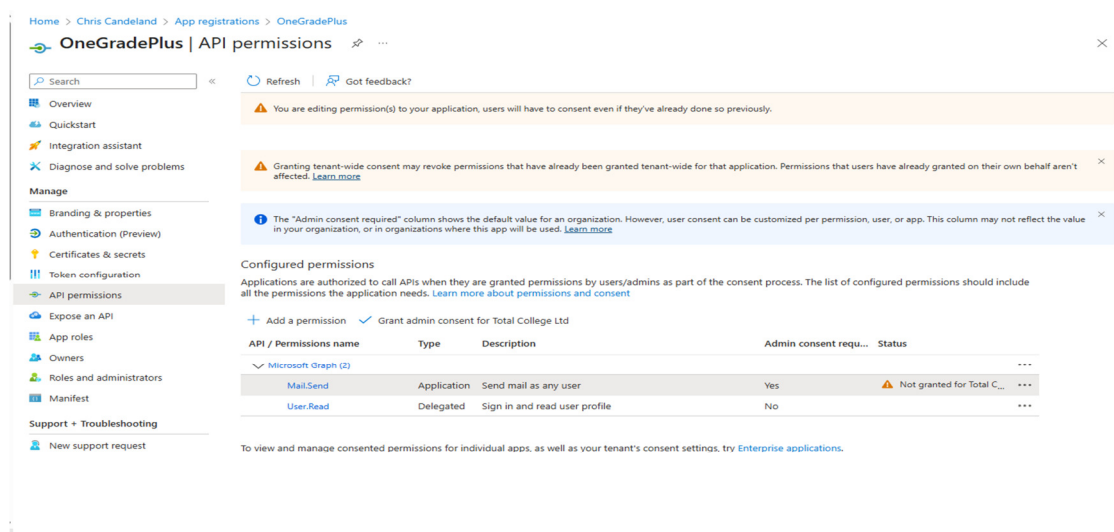
Within the OneGradePlus Application – App registrations – OneGradePlus – API Permissions, add in a Mail.Send permission.

Press **Add a permission**, select **Microsoft Graph**, then select **Application Permission**.

Search for Mail.Send. Tick this permission and press **Add Permissions**.



After adding the permission, the permission status will not be granted for your Tenant. You must grant this manually.



Registering and Configuring OneGradePlus with MS-OAuth (Entra)

Do this by selecting the Mail.Send permission and press the **Grant admin consent for [Tenant Name]** button.

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for Total College Ltd

API / Permissions name	Type	Description	Admin consent requ...	Status
Microsoft Graph (2)				
Mail.Send	Application	Send mail as any user	Yes	⚠ Not granted for Total C... ⋮
User.Read	Delegated	Sign in and read user profile	No	⋮

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

Confirm this by pressing the **Yes** button.

Home > Chris Candeland > App registrations > OneGradePlus

OneGradePlus | API permissions ⚙ ⋮

Search Refresh Got feedback?

Overview
Quickstart
Integration assistant
Diagnose and solve problems
Manage
Branding & properties

Grant admin consent confirmation.

Do you want to grant consent for the requested permissions for all accounts in Total College Ltd? This will update any existing admin consent records this application already has to match what is listed below.

ⓘ The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value

The permission will then show as being granted (with a green tick):

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for Total College Ltd

API / Permissions name	Type	Description	Admin consent requ...	Status
Microsoft Graph (2)				
Mail.Send	Application	Send mail as any user	Yes	✅ Granted for Total Colleg... ⋮
User.Read	Delegated	Sign in and read user profile	No	✅ Granted for Total Colleg... ⋮

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

In the OneGrade Windows Application, System Setting Values Maintenance screen, complete OAuthEmailSecurityType (SECRET, CERT, PFX, PFX64) and the related applicable OAuth settings. You must then complete the OAuthEmailSenderAddress with the user account that can send emails from the registered OneGradePlus Entra Application. Our suggested example was OneGradePlus@CollegeName.ac.uk

Sending the emails can be tested using the Job schedule screen within the OneGrade Windows Application. Further details about these System Setting Values can be found in the Import and Scheduling document – a link for which is on the job Schedule screen in the OneGrade Windows Application.