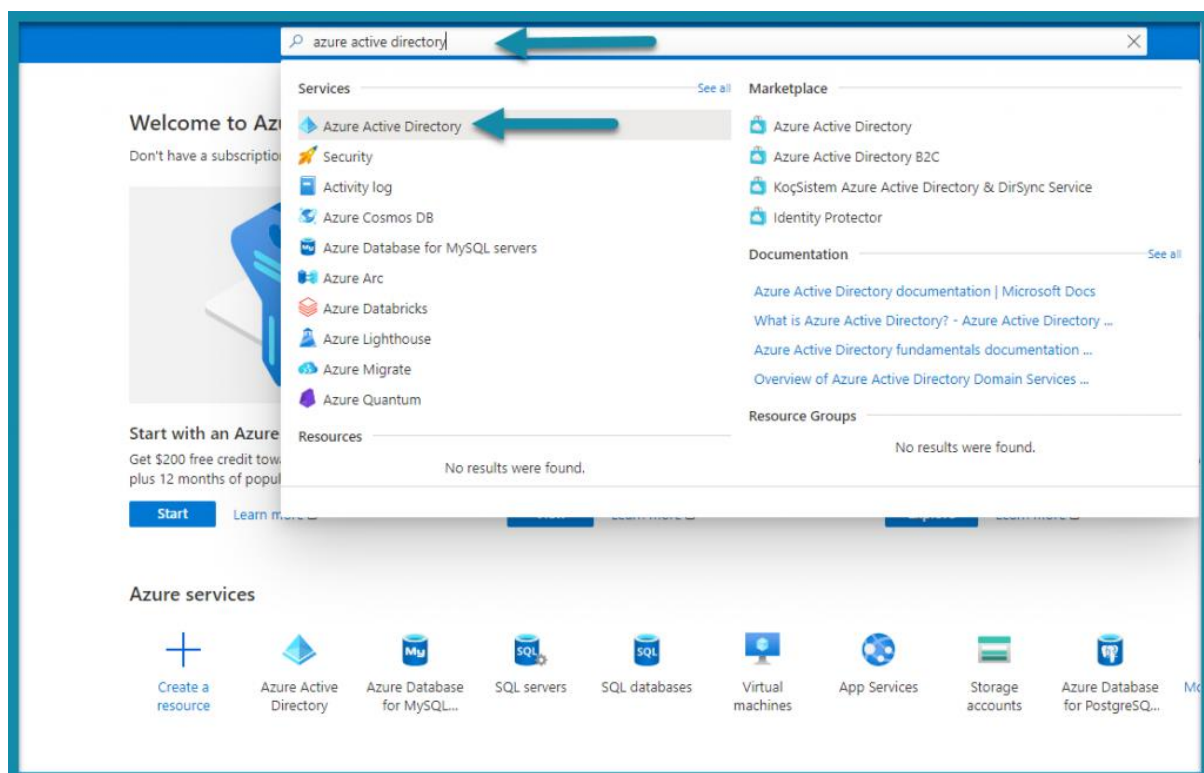


Microsoft has started deprecating the Office365 Authentication Type Microsoft [recommends](#) to use [OAuth](#) authentication type for CRM connectivity through code. Let's see how can we do it:

Register an app in Azure Active Directory

Login to [Azure Portal](#) and search for **Azure Active Directory**.



Click on **App Registrations**.

Optimal Logics | Overview
Azure Active Directory

Switch tenant | Delete tenant | Create a tenant | What's new | Preview features | Got feedback?

Azure Active Directory can help you enable remote work for your employees and partners. [Learn more](#)

Optimal Logics

Search your tenant

Tenant information

Your role
Global administrator [More info](#)

License
Azure AD for Office 365

Tenant ID
eda82b51-e95a-49fb-a6f9-ba8f8...

Primary domain
optimalpakistan.onmicrosoft.com

Azure AD Connect

Status
Not enabled

Last sync
Sync has never run

Sign-ins

300
250
200
150
100
50

Click **New Registration** and Register.

Home > Optimal Logics

Optimal Logics | App registrations

+ New registration | Endpoints | Troubleshooting | Download | Preview features | Got feedback?

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

All applications | **Owned applications**

Start typing a name or Application ID to filter these results

Display name

AP	AppUser
co	ConnectCRM

Home > Optimal Logics >

Register an application

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

ConnectCRM ✓

Supported account types
Who can use this application or access this API?

☒ Accounts in this organizational directory only (Optimal Logics only - Single tenant)
☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)
☐ Accounts in any organizational directory (Any Azure AD directory - 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.

Web e.g. https://myapp.com/auth

Once Registered, click on **Manifest** and set the **allowPublicClient** property to true.

Home > Optimal Logics > ConnectCRM

ConnectCRM | Manifest

Search (Ctrl+/) Save Discard Upload Download Got feedback?

Overview Quickstart Integration assistant

Manage

- Branding
- Authentication
- Certificates & secrets
- Token configuration
- API permissions
- Expose an API
- App roles | Preview
- Owners
- Roles and administrators | Preview
- Manifest**

Support + Troubleshooting

The editor below allows you to update this application by directly modifying its JSON representation. For more details, see: [Understanding the application manifest](#)

```
1 {
2   "id": "0150f277-2118-477a-b3b3-a6869d64af64",
3   "acceptMappedClaims": null,
4   "accessTokenAcceptedVersion": null,
5   "addIns": [],
6   "allowPublicClient": null,
7   "appId": "cf6fb47f-74cd-4ed1-ae54ed2e15ffa",
8   "appRoles": [],
9   "oauth2AllowUrlPathMatching": false,
10  "createdDateTime": "2020-11-23T11:17:45Z",
11  "disabledByMicrosoftStatus": null,
12  "groupMembershipClaims": null,
13  "identifierUris": [],
14  "informationalUrls": {
15    "termsOfService": null,
16    "support": null,
17    "privacy": null,
18    "marketing": null
19  },
20  "keyCredentials": [],
21  "knownClientApplications": [],
22  "logoUrl": null,
23  "logoutUrl": null,
24  "name": "ConnectCRM",
```

To set **Permissions**, Click on **API Permissions**.

Home > Optimal Logics > ConnectCRM

ConnectCRM | Manifest

Search (Ctrl+/) Save Discard Upload Download Got feedback?

Overview Quickstart Integration assistant

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Support + Troubleshooting Troubleshooting

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8   "appRoles": [],
9   "oauth2AllowUrlPathMatching": false,
10  "createdDateTime": "2020-11-23T11:17:45Z",
11  "disabledByMicrosoftStatus": null,
12  "groupMembershipClaims": null,
13  "identifierUri": [],
14  "informationalUrls": {
15    "termsOfService": null,
16    "support": null,
17    "privacy": null,
18    "marketing": null
19  },
20  "keyCredentials": [],
21  "knownClientApplications": [],
22  "logoUrl": null,
23  "logoutUrl": null,
24  "name": "ConnectCRM",
```

Click on **Add Permission** to add permissions for Dynamics CRM.

Refresh Got feedback?

Configured permissions

Applications are authorized to use APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions is shown below. [Learn more about permissions and consent](#)

+ Add a permission Grant admin consent for Optimal Logics

API / Permissions name	Type	Description	Admin consent req...
Microsoft Graph (1)			
User.Read	Delegated	Sign in and read user profile	-

Select an API

Microsoft APIs APIs my organization uses My APIs


Commonly used Microsoft APIs

- Microsoft Graph**
Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility, and Azure AD. Access Azure AD, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, and more.
- Azure Rights Management Services**
Allow validated users to read and write protected content
- Azure Service Management**
Programmatic access to much of the functionality available through the Azure portal
- Dynamics 365 Business Central**
Programmatic access to data and functionality in Dynamics 365 Business Central
- Dynamics CRM**
Access the capabilities of CRM business software and ERP systems
- Intune**
Programmatic access to Intune data
- Office 365 Management APIs**
Retrieve information about user, admin, system, and policy actions and events from Office 365 and Azure AD activity logs

Select **Access Common Data Service as organization users**.

Request API permissions

[All APIs](#)



Dynamics CRM

<https://admin.services.crm.dynamics.com/> [Docs](#)

What type of permissions does your application require?

Delegated permissions

Your application needs to access the API as the signed-in user.

Application permissions

Your application runs as a background service or daemon without a signed-in user.

Select permissions

expand all

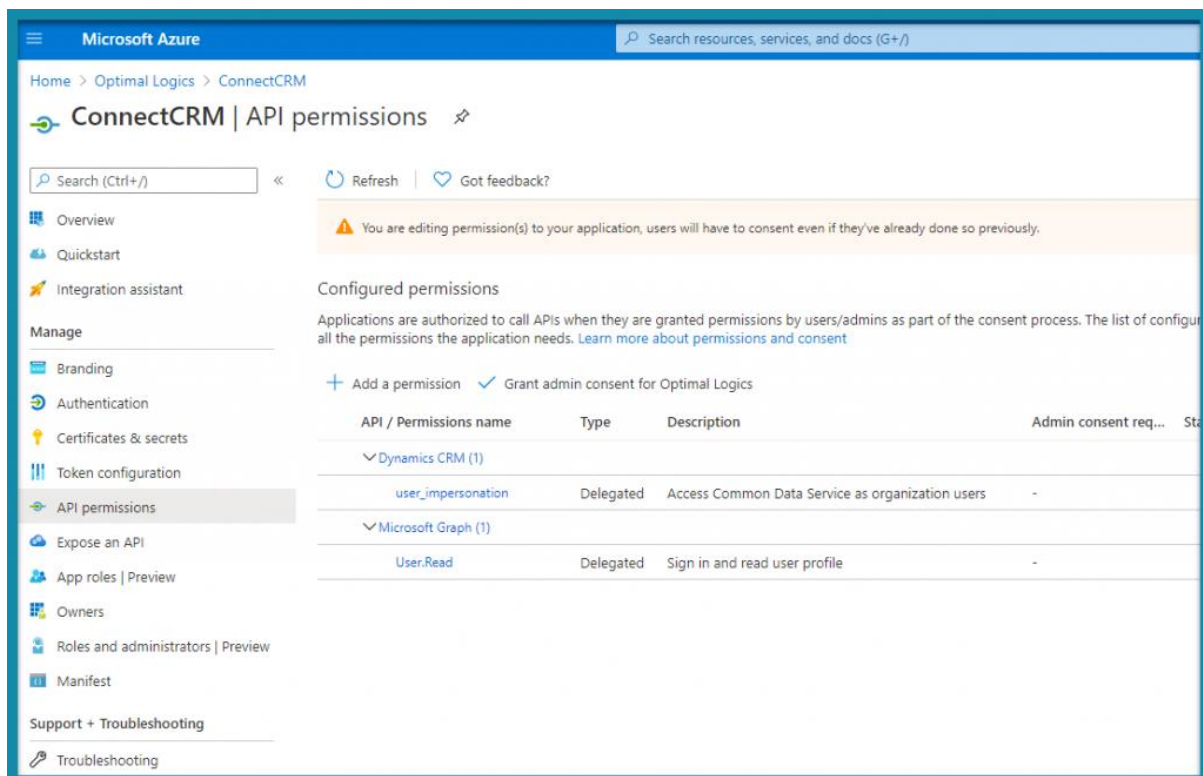
Start typing a reply url to filter these results

Permission	Admin consent required
Permissions (1)	
<input checked="" type="checkbox"/> user_impersonation ⓘ Access Common Data Service as organization users	-

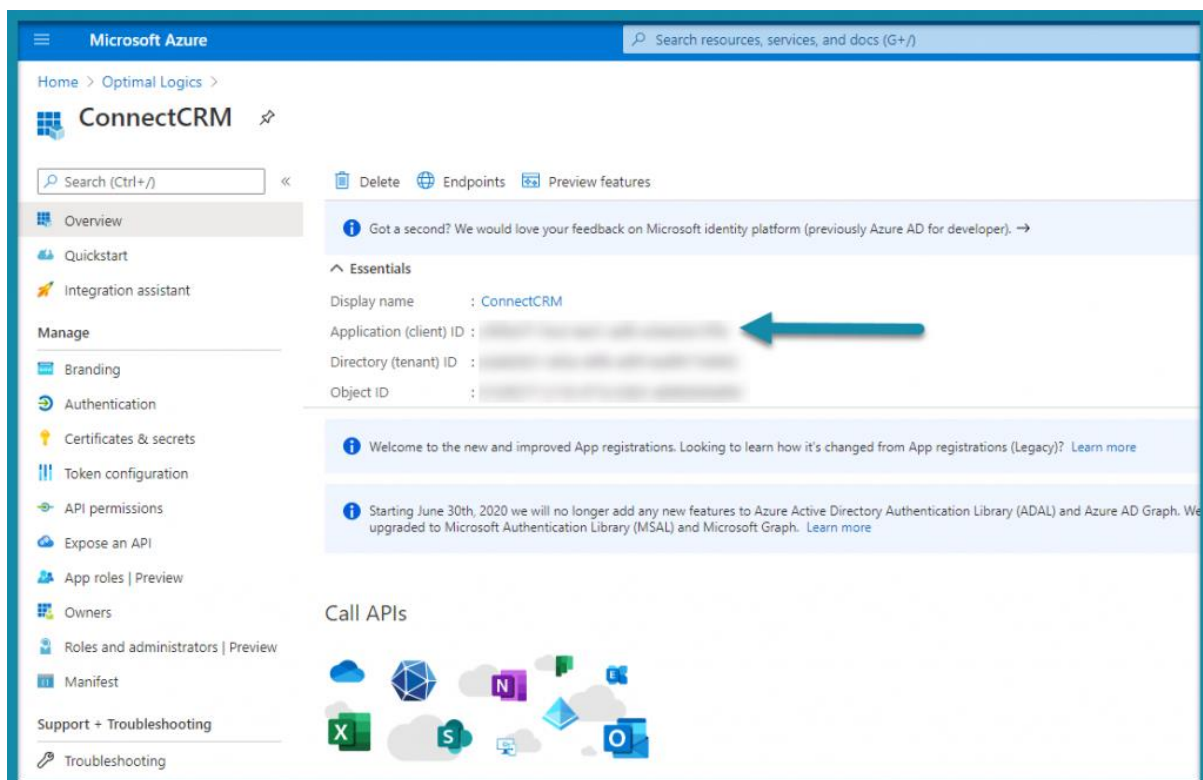
Add permissions

Discard

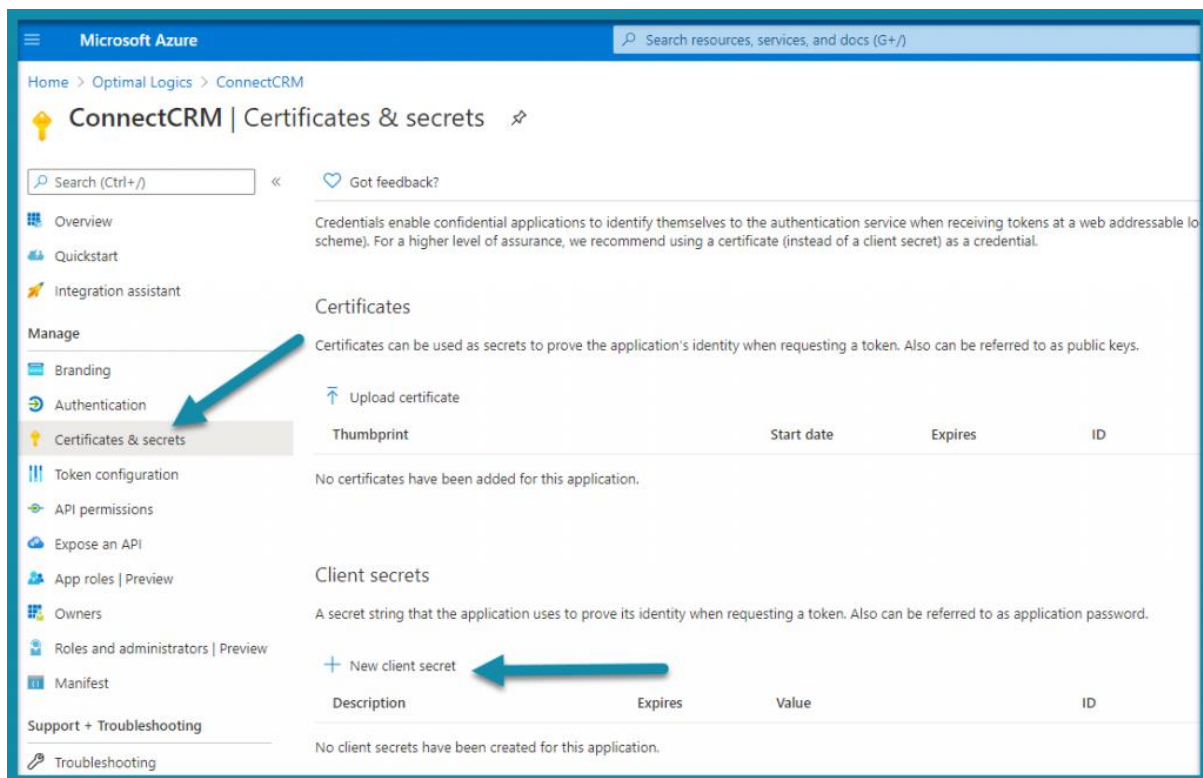
Once permissions are updated, we will see the following.



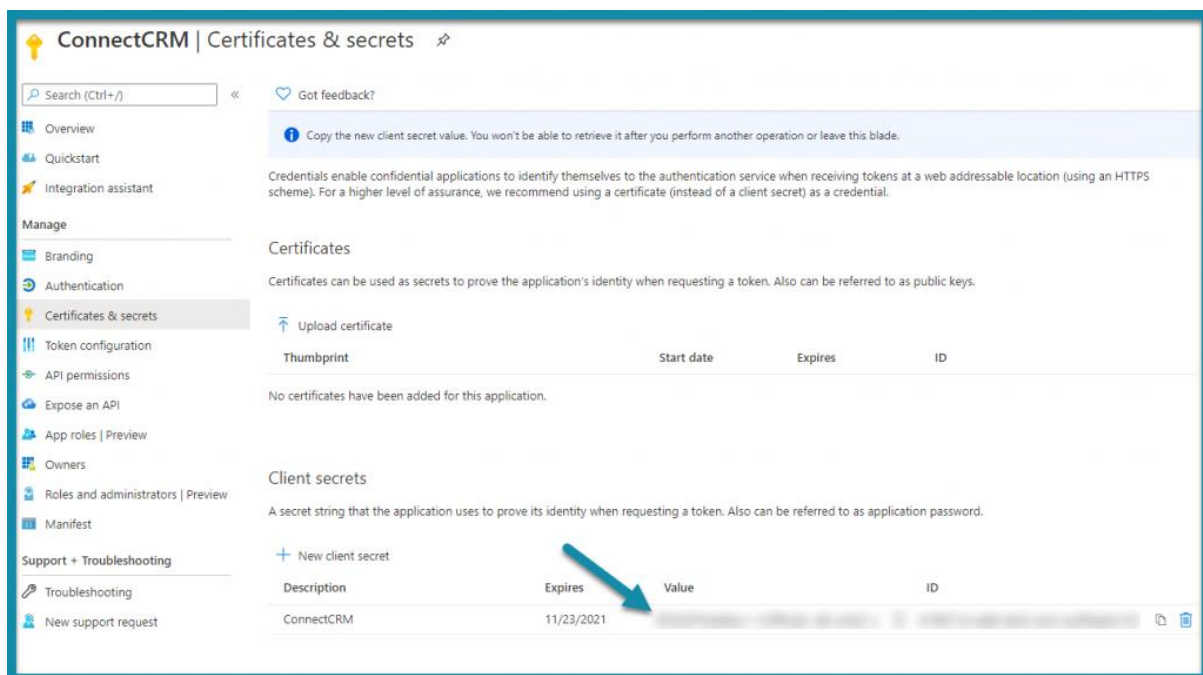
Next, we will copy the **Application (client) ID** by clicking on **Overview**.



Click on **Certificates & Secrets** and generate the new secret by clicking on **New Client Secret**.

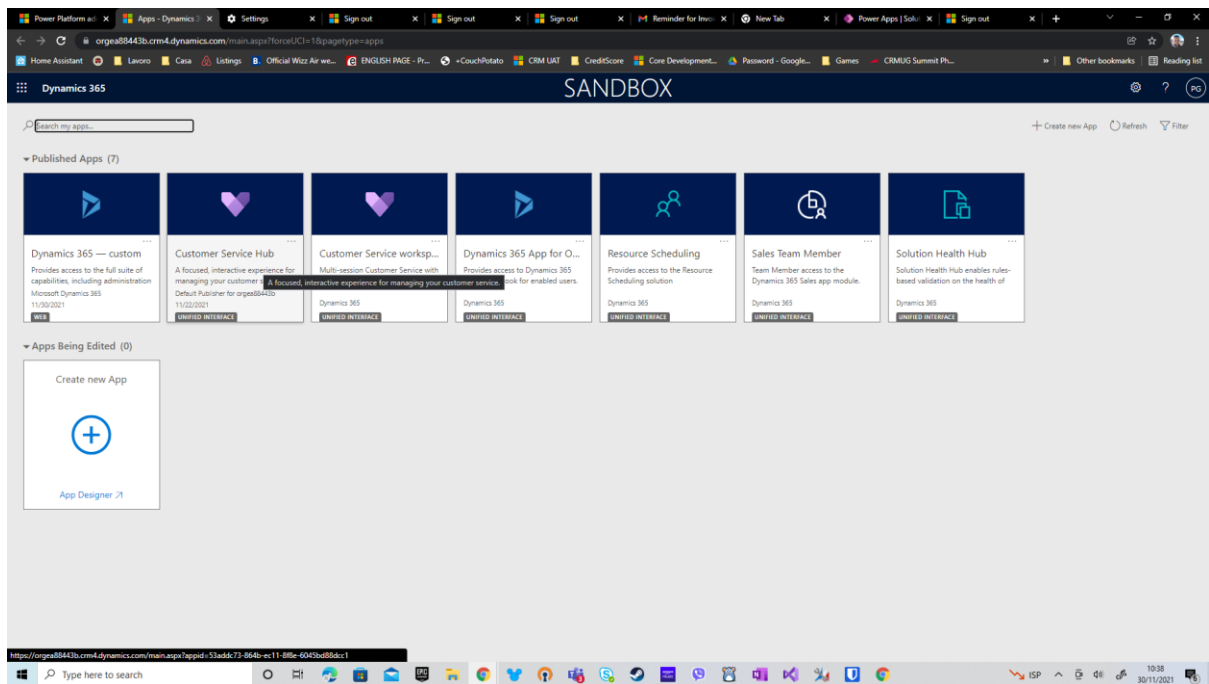


Copy the newly generated secret for use in our code.

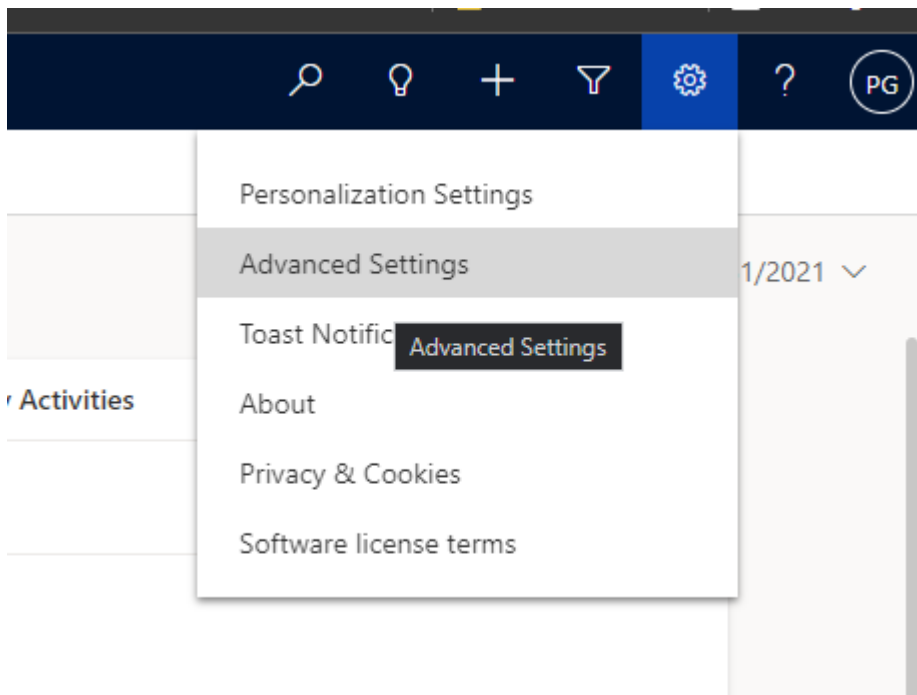


Next step is to create an **Application User** in CRM.

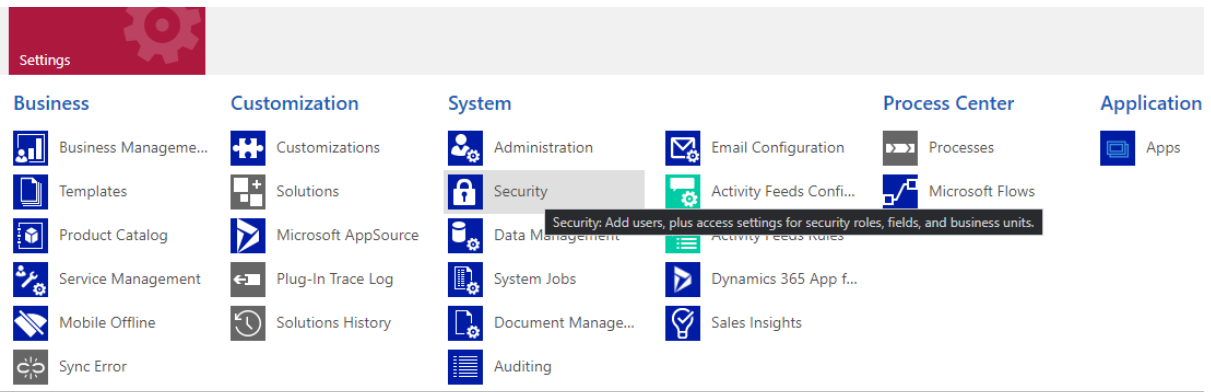
Open Customer services hub



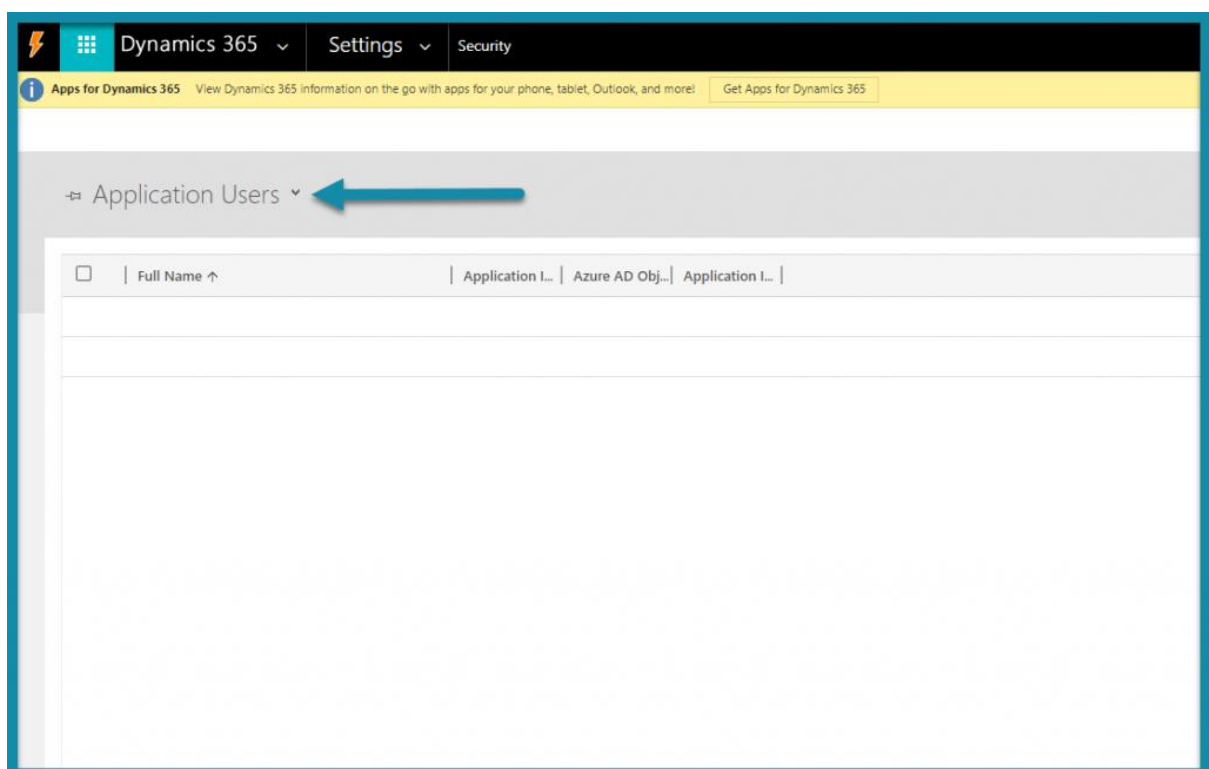
- Open Advance Setting from CRM



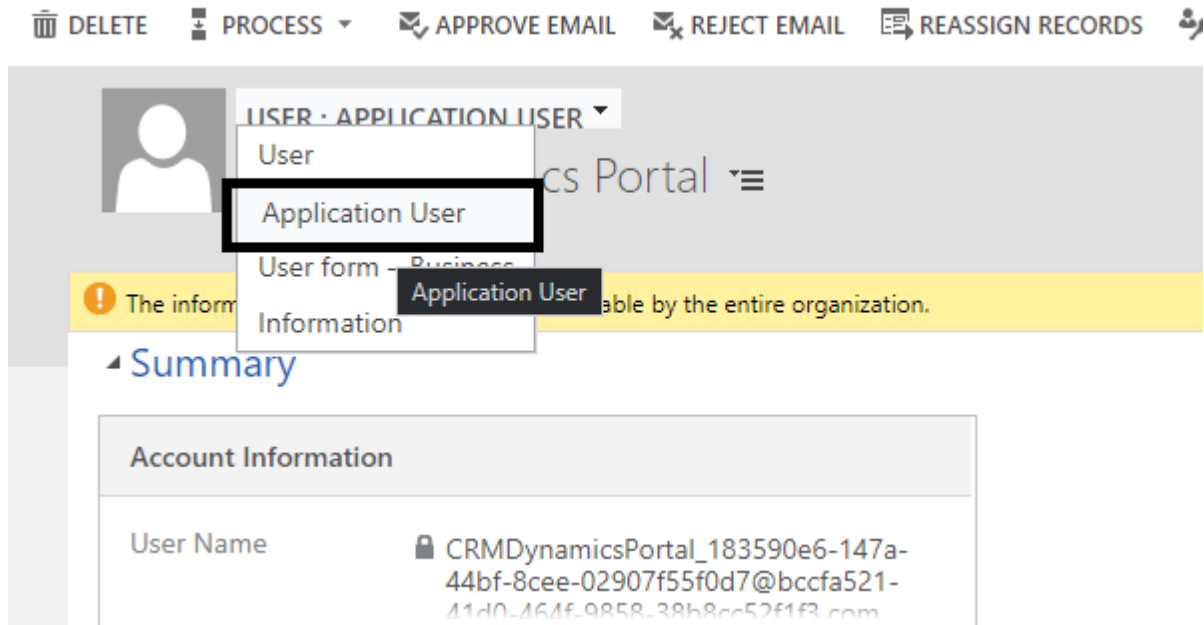
Select then Users



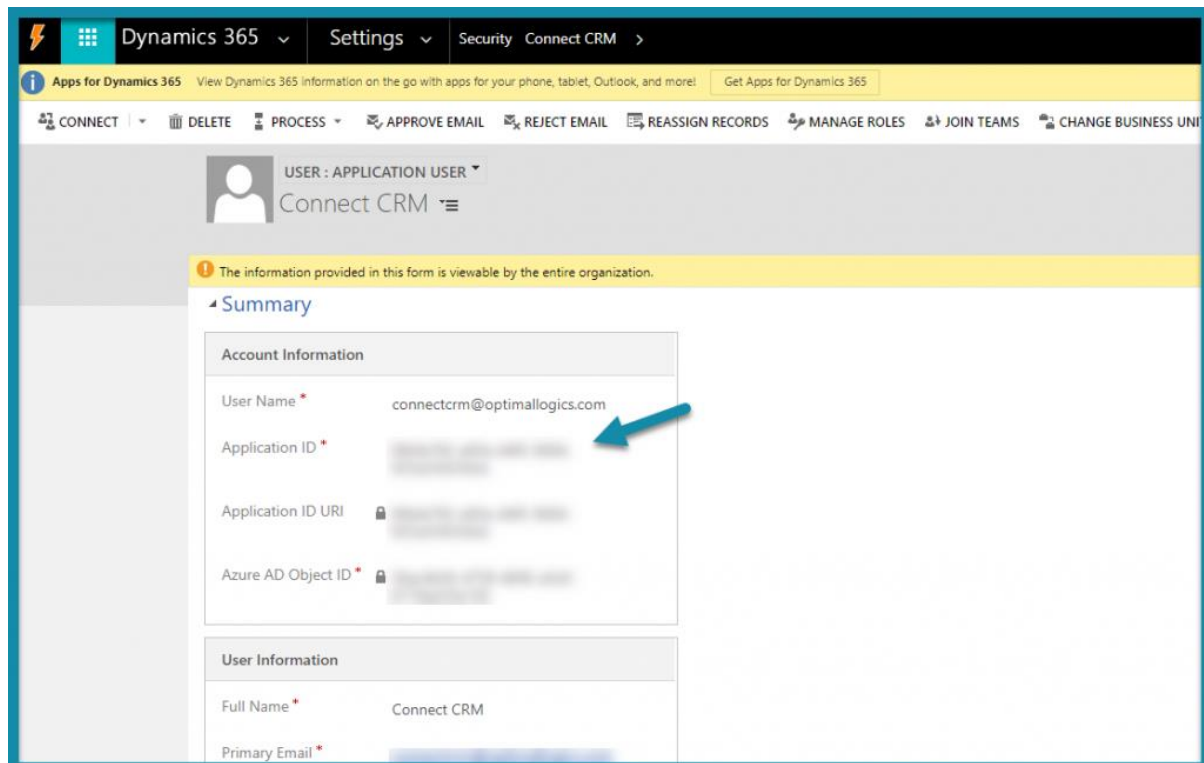
Then Users (remember to select the windows application Users')



Select The 'window'



While creating the **Application User**, please add **the Application ID** copied earlier.



Once the user is added, please assign a security role to the user.

Apply sys admin role to this new user

The screenshot shows the Dynamics 365 interface with the 'Manage User Roles' dialog box open. The dialog box is titled 'Manage User Roles' and asks 'What roles would you like to apply to the 1 User you have selected?'. It contains a table with two columns: 'Role Name' and 'Business Unit'. The roles listed are: Service Reader, Service Writer, Solution Checker, Survey Services Administrator (Deprecated), Sync Skills, System Administrator (selected), and System Customizer. The 'System Administrator' role is selected with a blue checkmark. The background shows the 'Summary' tab for a user named 'APPLICATION USER' with account information.

1

2