



MoxiEngage Integration Process using Microsoft 365 (Client secret)

Introduction

Don't panic! This setup has been completed by hundreds of individuals with no previous experience in setting up email accounts and/or credentials. This document includes screenshots of the entire process, step-by-step. You got this!

Use the links below to jump to a particular MoxiEngage integration set-up step:

[Create a Service Account User](#)

[Grant Application Impersonation to the Service Account User](#)

[Test Service Account Impersonation for MoxiEngage](#)

[Submit Credentials to MoxiEngage](#)

If you have questions or concerns, please check out our [Tips and Further Info!](#)

Overview

MoxiEngage integrates directly with your brokerage's Microsoft 365 (formerly Office 365) account to provide your agents and support staff with consistent and convenient access to their information, while eliminating any need to enter the same information multiple times.

MoxiEngage uses Modern Authentication with an impersonation service account through the Exchange Web Services (EWS) Managed API to synchronize data and perform actions on behalf of individual users. Each MoxiEngage user account has an email address that corresponds to a mailbox on your Microsoft 365 account. All integration actions are performed within the context of a single given mailbox. MoxiEngage never requires administrative access to your Microsoft 365 account.

Contacts

MoxiEngage continually synchronizes a user's contacts and contact details with the Microsoft 365 Exchange mailbox. Contacts created in Microsoft 365 will appear in MoxiEngage. Contacts created in MoxiEngage are synchronized back to the Microsoft 365 mailbox.

Calendar

MoxiEngage displays the user's calendar events and appointments. Calendar events and appointments can also be added through MoxiEngage and are synchronized to the Microsoft 365 mailbox.

Email

MoxiEngage sends certain email messages through user's mailbox. These email messages will appear in the Sent mail folder and will be delivered to the recipient from the mailbox just as if the user had sent the email from Microsoft 365 directly.



MoxiEngage does not synchronize or inspect incoming email messages.

Information Gathering

To enable configuration of the MoxiEngage integration, we will need to gather some key information and credentials from you, including the service account credentials, Client ID, and Tenant ID obtained by following the steps in the [Microsoft 365 Setup Instructions for Administrators](#) section of this document.

Next Steps

Verification of Credentials

MoxiWorks staff will begin the next step of the integration process. We will test the credentials you provided to verify that the service account is able to connect to your email service using Modern Authentication and perform a synchronization for the test email address you supplied.

Outcome: Credentials Cannot be Verified

If your entered credentials cannot be verified, we will contact you. Your email administrator will need to resolve the issue and then you will provide us with the updated information.

Outcome: Credentials are Verified Successfully

If your credentials are verified successfully, we will store the credentials securely. Congratulations! This is a key milestone that enables us to continue the process of getting MoxiEngage enabled for your brokerage.

Security

MoxiWorks requires the use of a single username/mailbox on your Microsoft 365 instance, configured as a service account with the Application Impersonation role. All interactions between the MoxiWorks system and your user's mailboxes happens through this designated impersonation account and delegation access to the EWS Managed API. MoxiEngage never requires administrative access to your Microsoft 365 instance.

Network Access

MoxiWorks systems communicate directly with Microsoft 365 servers over secure HTTPS/SSL connections.

Managing Shared Secrets and Credentials

For automated access, MoxiWorks makes use of methods native to our configuration management software. Credentials are stored in encrypted objects accessible only to servers with the relevant service role and environment. These credentials are pulled and decrypted during software deployment. Server identity is validated via pre-shared public/private key. Credentials are managed through a commercial password manager and any non-automated access is limited to the MoxiWorks Technical Operations team and, with customer approval, limited support personnel on an as-needed basis. See also:

<https://docs.chef.io/secrets.html#encrypt-a-data-bag-item>

<https://www.lastpass.com/en/enterprise>

Communications Policy for Security Breaches

In the unlikely event of a security breach where client data such as account credentials for registrar management, impersonation credentials, and the like may have been compromised, MoxiWorks Technical Operations and/or Account Management staff will notify affected clients. If the client is aware of a potential security breach, they should notify MoxiWorks immediately so that we may contain and mitigate potential risk in a timely manner. In either case, a change to Impersonation account credentials will be coordinated between both parties.

Microsoft 365 Setup Instructions for Administrators

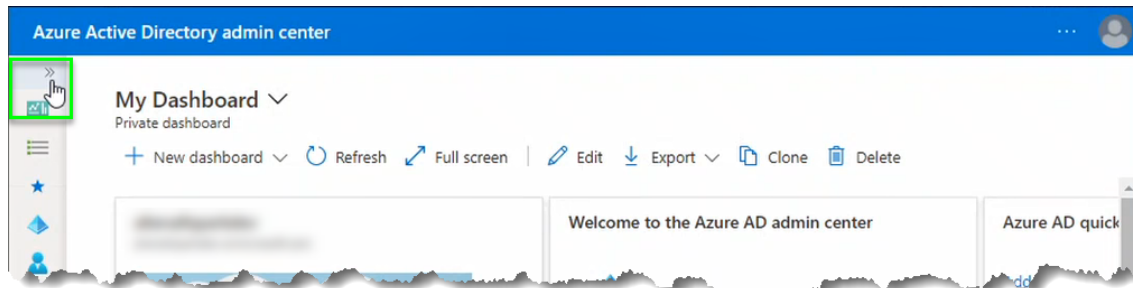
A client application must also be registered and configured with delegation access to the Exchange Web Services (EWS) Managed API to support Modern Authentication.

Microsoft 365 menu structure and user interface is subject to change. Steps provided in this document were performed from a computer running Windows 10 Pro against a Microsoft 365 instance created in July 2021. If you are running an on-premises installation of Exchange Server, the actual steps required to accomplish these tasks may be different than those described in this document.

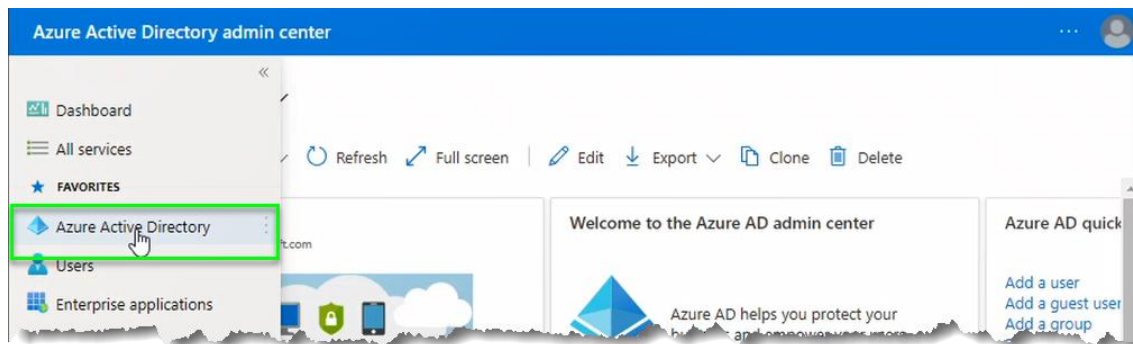
The instructions provided in this guide are not intended to provide security advice for configuring your Microsoft 365 instance. The documented steps represent the most direct approach available at the time of this writing to achieve the necessary access required by MoxiWorks products. Other methods of configuration may be available.

Register the MoxiEngage Application as an API Client

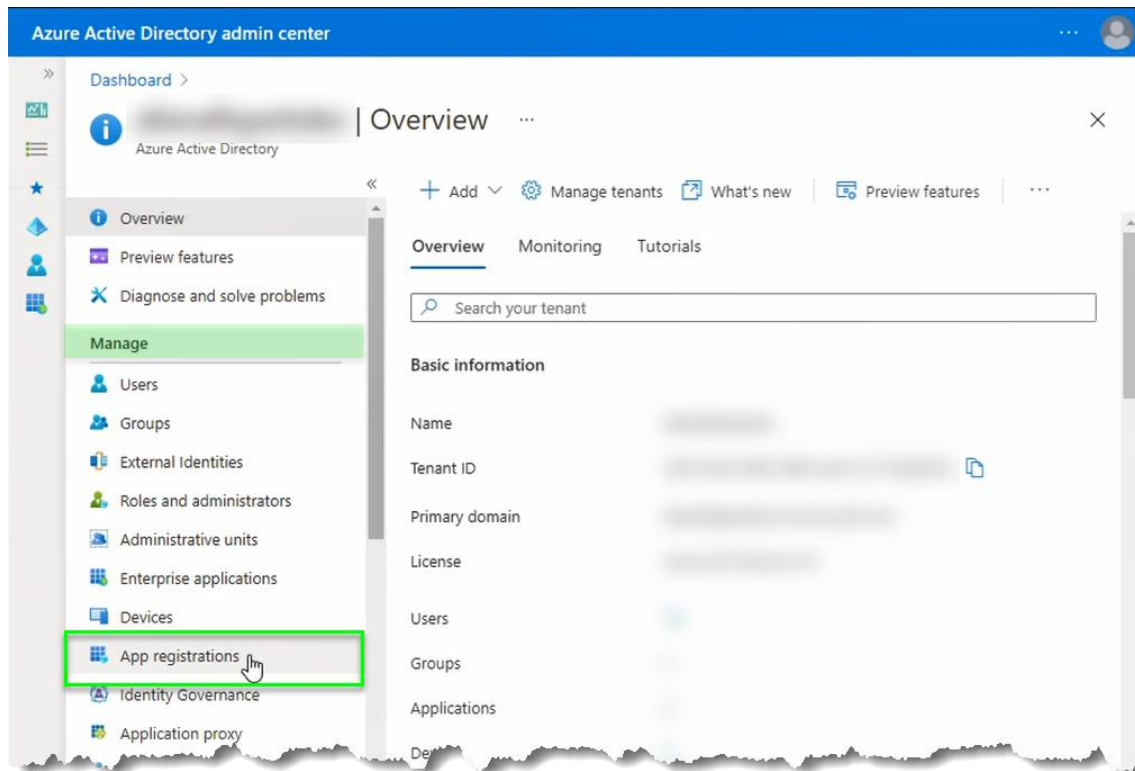
1. Login to your [Azure Active Directory Admin Center](#).
2. Click on the double chevron in the top left corner of the screen to expand the written menu.



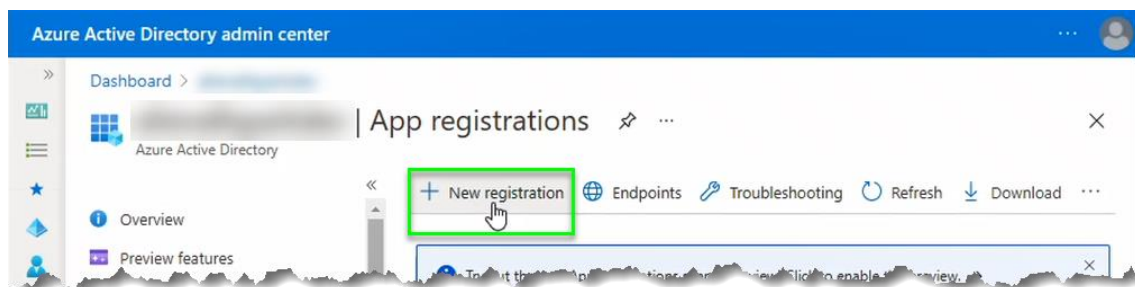
3. Click on the "Azure Active Directory" option in the menu.



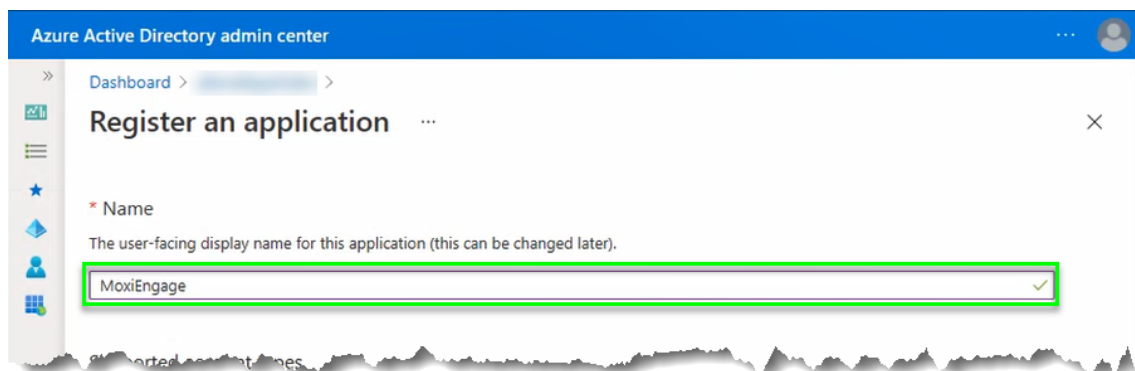
- From the Azure Active Directory Dashboard for your Microsoft 365 instance, click on the “App Registrations” menu option under the “Manage” grouping.



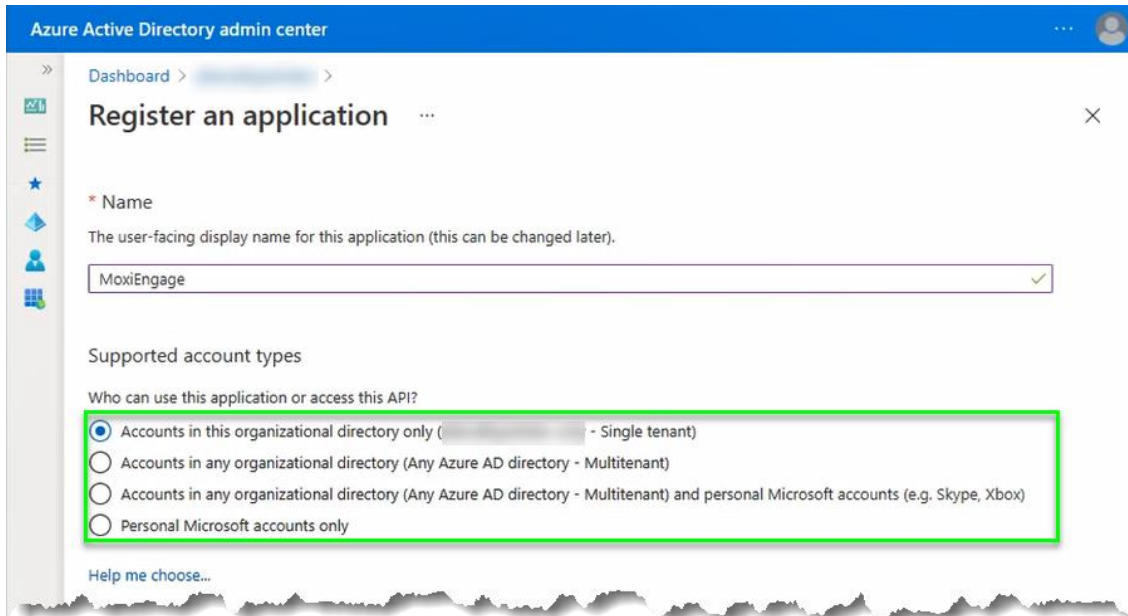
- Click on the “New registration” link.



- Enter a name for the MoxiWorks client application (e.g., MoxiEngage).



7. Indicate the type of Microsoft 365 account that will be using MoxiEngage. In most instances, the Single Tenant default selection will be correct.



Azure Active Directory admin center

Dashboard > >

Register an application

* Name

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

MoxiEngage ✓

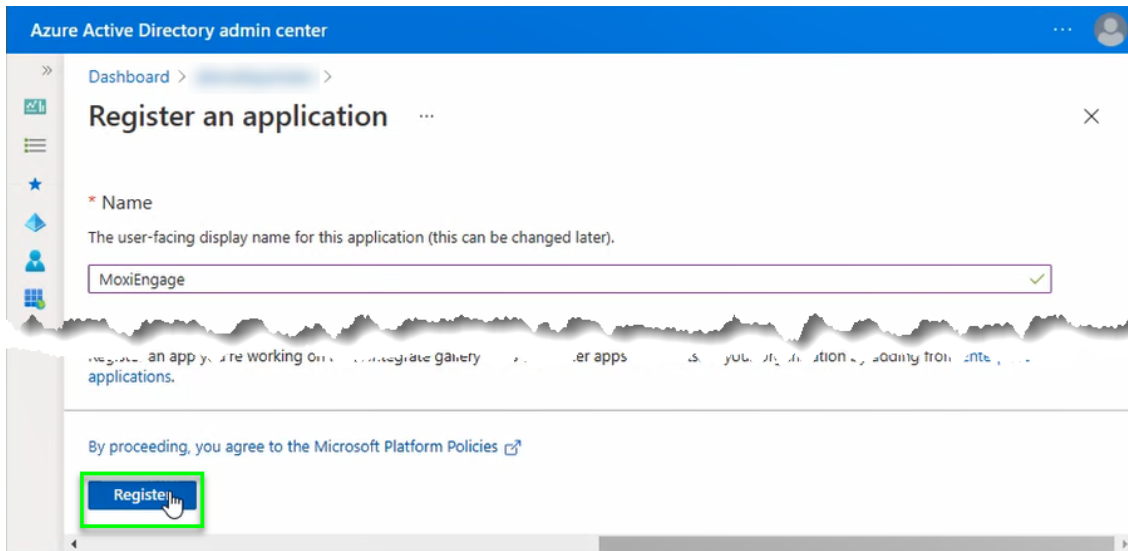
Supported account types

Who can use this application or access this API?

- ☒ Accounts in this organizational directory 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...](#)

8. The Redirect URI settings are optional. No changes are needed.
9. Click on the “Register” button.



Azure Active Directory admin center

Dashboard > >

Register an application

* Name

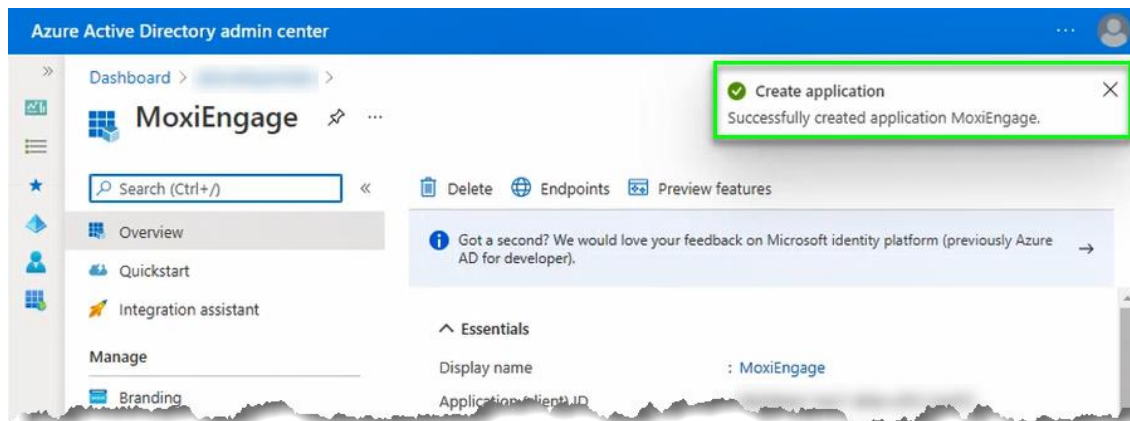
The user-facing display name for this application (this can be changed later).

MoxiEngage ✓

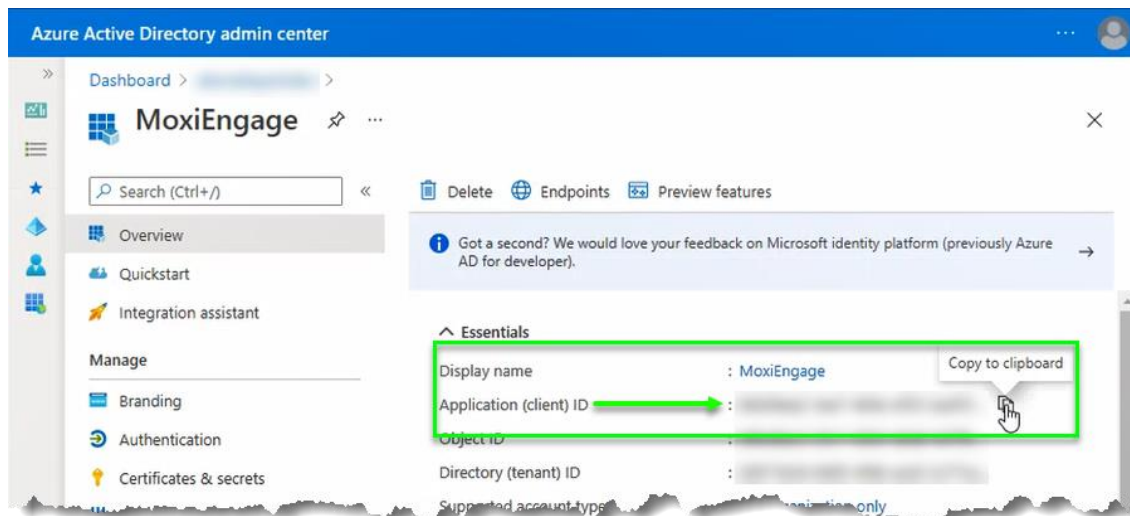
By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

10. Observe the notification that your application was created successfully.

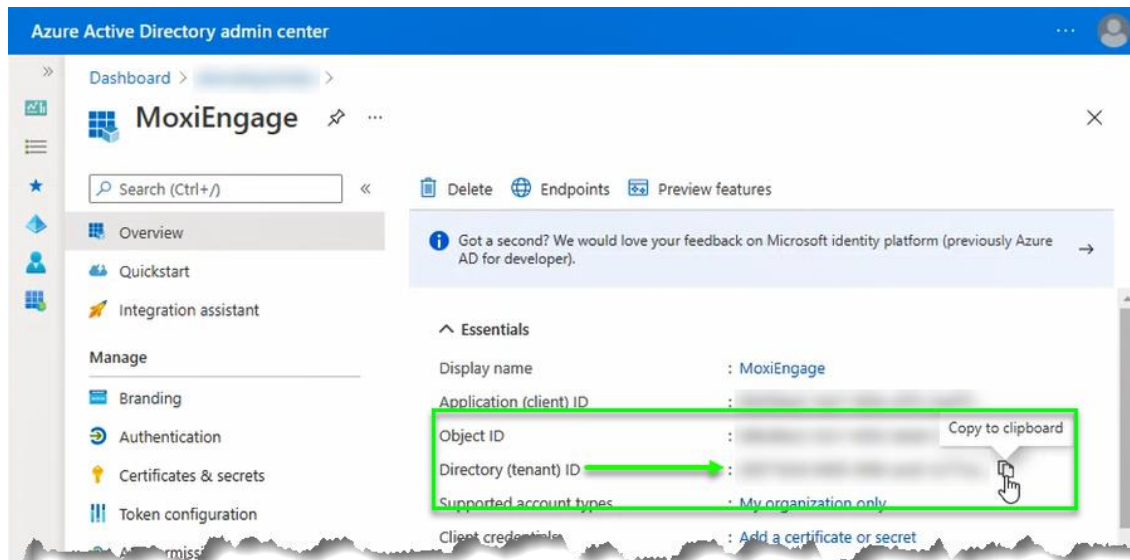


11. Locate the value next to the “Application (client) ID” label, then click on the “Copy to clipboard” button (only visible when you hover over the value).

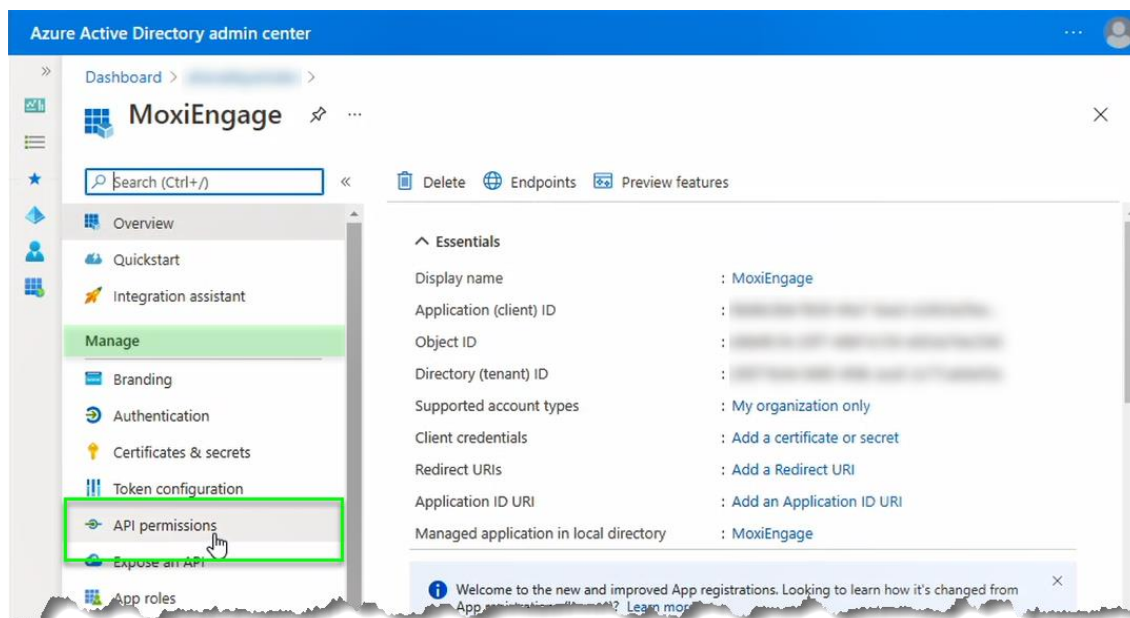


12. Paste the value to a text file for reference. You will need to provide this value to MoxiWorks as your Client ID.

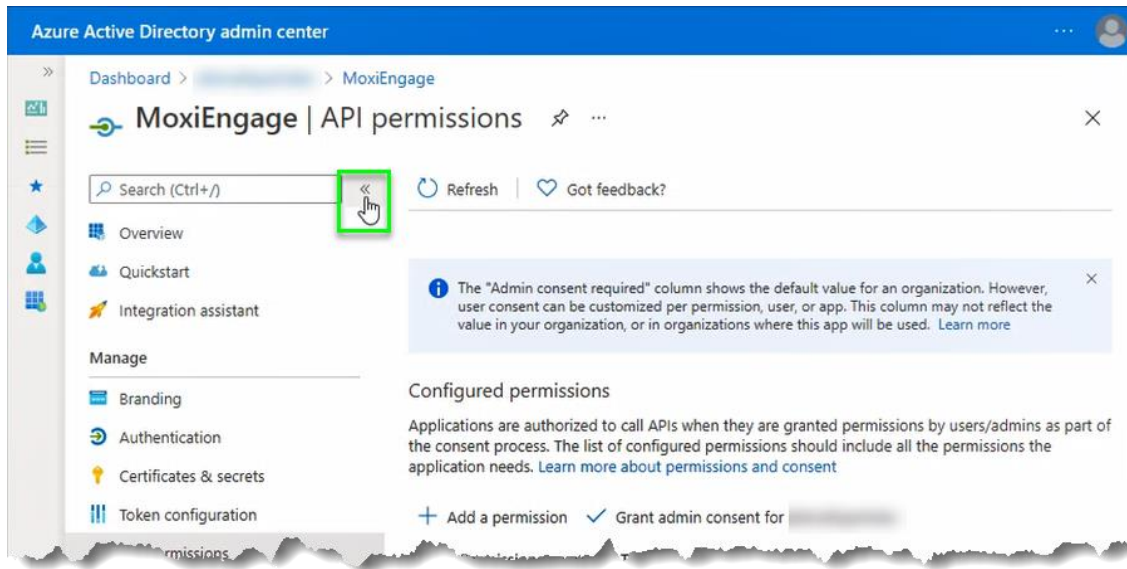
13. Locate the value next to the “Directory (tenant) ID” label, then click on the “Copy to clipboard” button (only visible when you hover over the value).



14. Paste the value to a text file for reference. You will need to provide this value to MoxiWorks as your Tenant ID.
15. Click on the “API permissions” option under the “Manage” grouping of the menu.



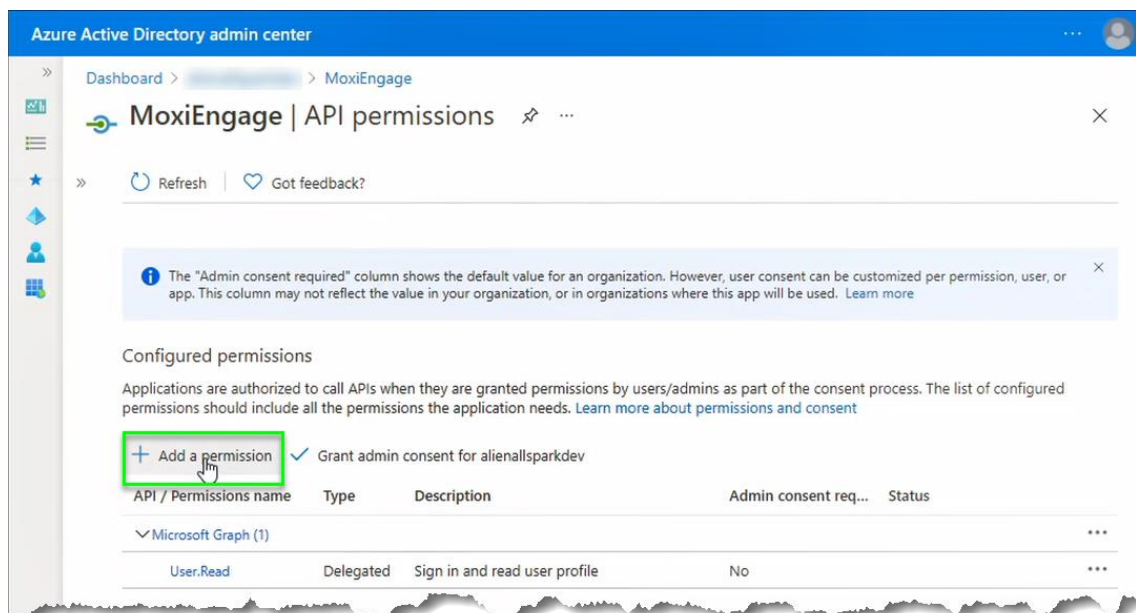
16. Click on the double chevron to collapse the side menu.



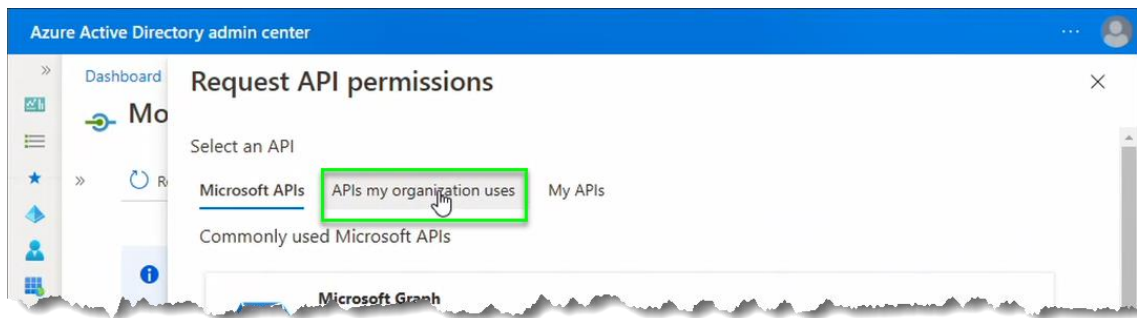
Note

The “User.Read” permission for the “Microsoft Graph” API may be listed in the “Configured permissions” list. This permission does not provide sufficient permissions for MoxiEngage to perform core functionality.

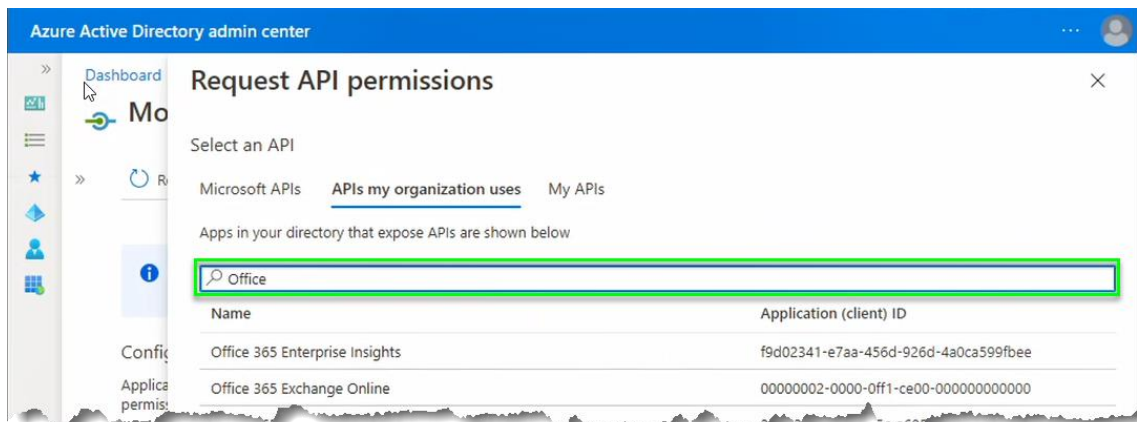
17. Click on the “Add a permission” link.



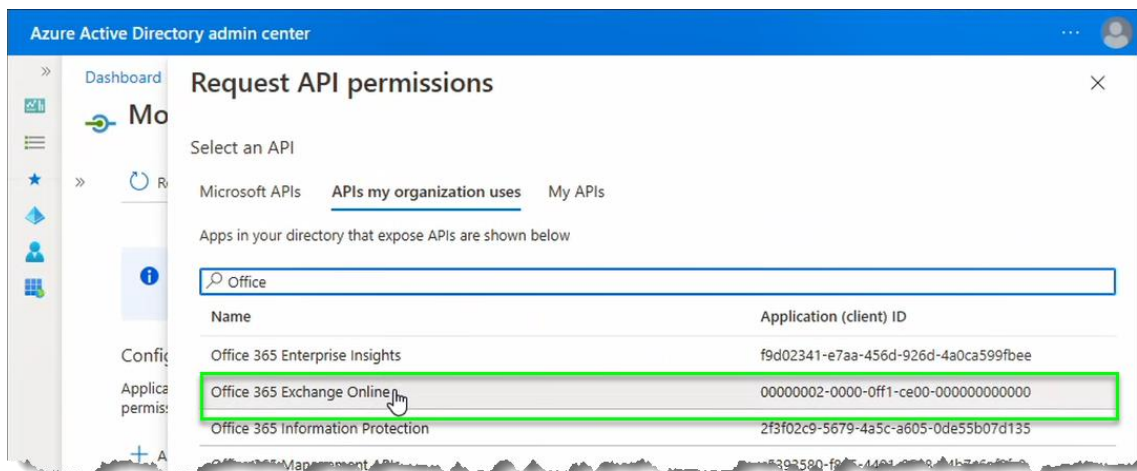
18. Click on “APIs my organization uses” tab to change the view of available APIs.



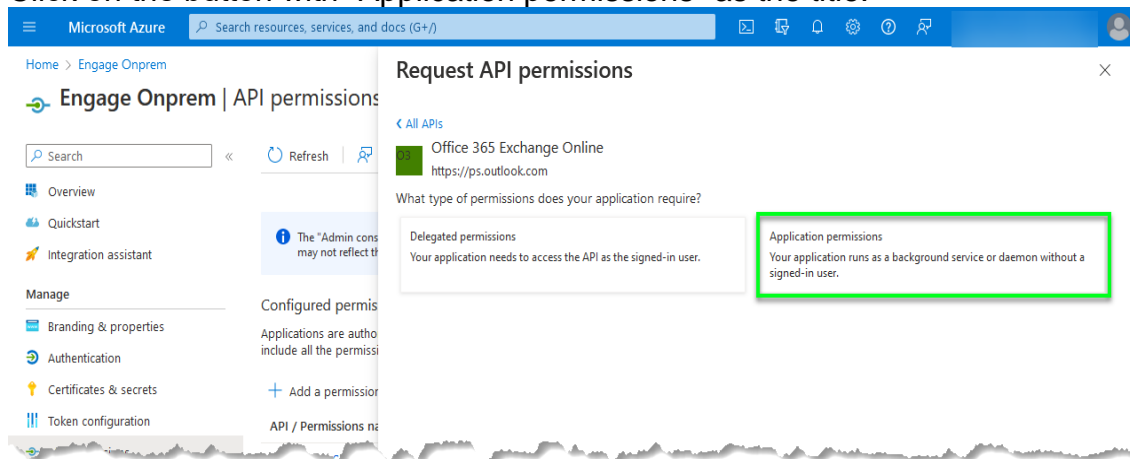
19. Type “Office” in the Search box to filter the API list.



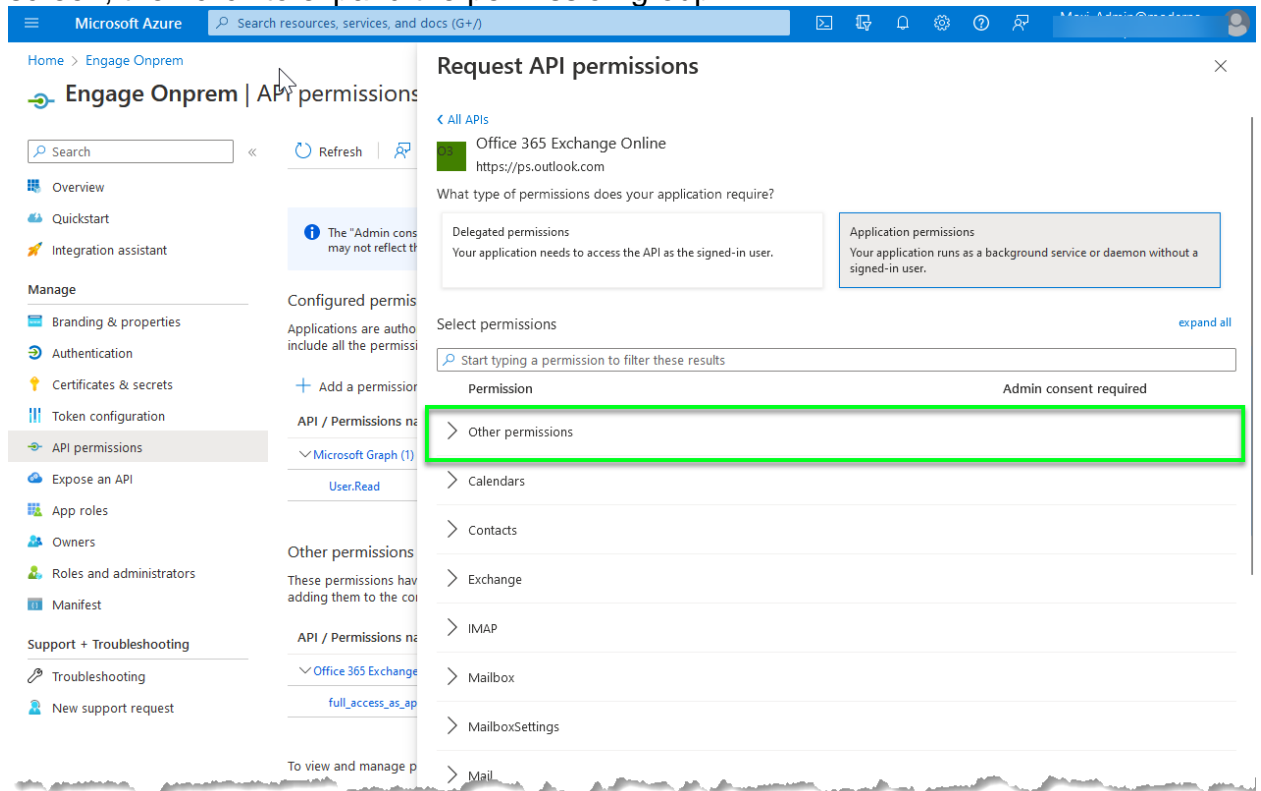
20. Click on the “Office 365 Exchange Online” API name.



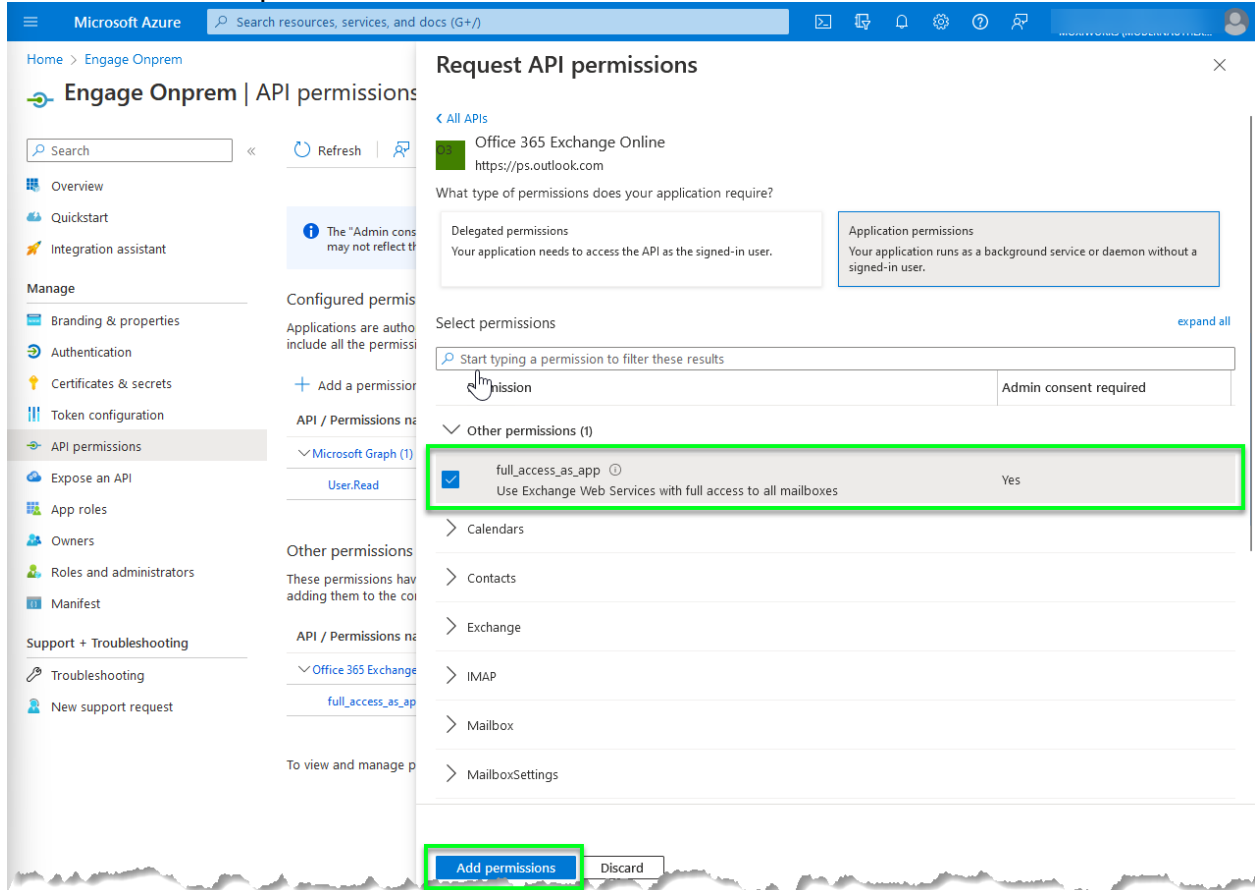
21. Click on the button with “Application permissions” as the title.



22. Locate the “Other permissions” item under the “Select permissions” area of the screen, then click to expand the permission group.



23. Check the box next to the “full_access_as_app” permission under the “Others” permission group.
24. Click on the “Add permissions” button.



The screenshot shows the Microsoft Azure portal interface. On the left, the 'Engage Onprem | API permissions' page is visible. The main area displays the 'Request API permissions' dialog for 'Office 365 Exchange Online'. The dialog is titled 'Request API permissions' and shows the application's URL as 'https://ps.outlook.com'. It asks 'What type of permissions does your application require?' and provides two options: 'Delegated permissions' and 'Application permissions'. The 'Application permissions' option is selected. Below this, there is a search bar for permissions. The 'full_access_as_app' permission is selected, and the 'Add permissions' button is highlighted. The 'Add permissions' button is located at the bottom of the dialog, next to a 'Discard' button.

Microsoft Azure Search resources, services, and docs (G+/)

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Engage Onprem | API permissions

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API / Permissions na

Microsoft Graph (1)

User.Read

Other permissions These permissions hav adding them to the co

API / Permissions na

Office 365 Exchange full_access_as_ap

To view and manage p

Request API permissions

< All APIs

Office 365 Exchange Online https://ps.outlook.com

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 permission to filter these results

permission Admin consent required

Other permissions (1)

☒ full_access_as_app Use Exchange Web Services with full access to all mailboxes Yes

> Calendars

> Contacts

> Exchange

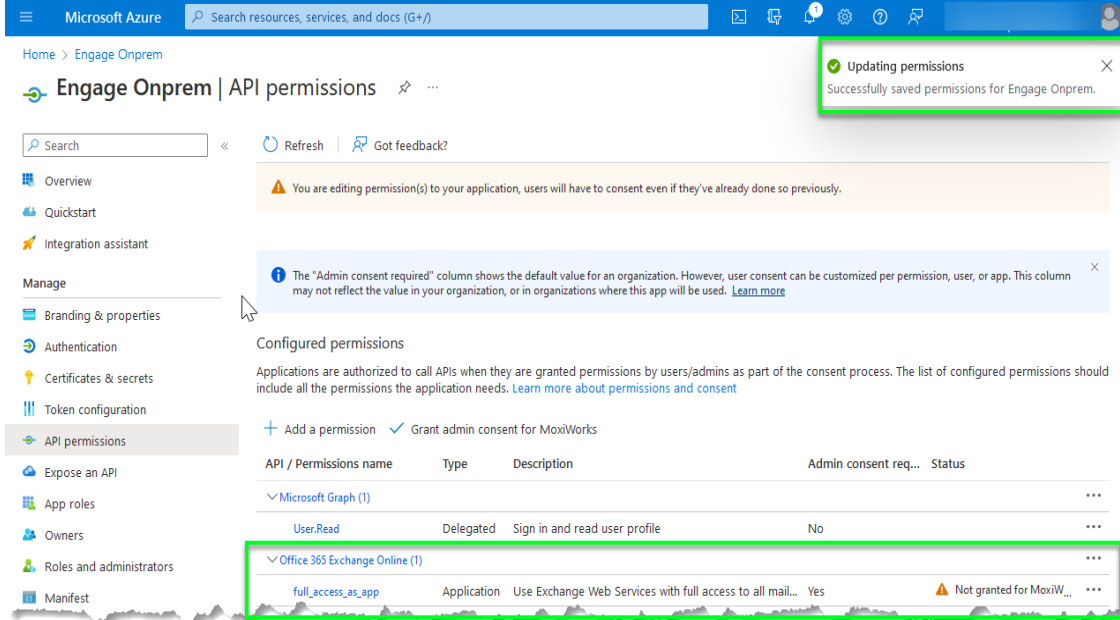
> IMAP

> Mailbox

> MailboxSettings

Add permissions Discard

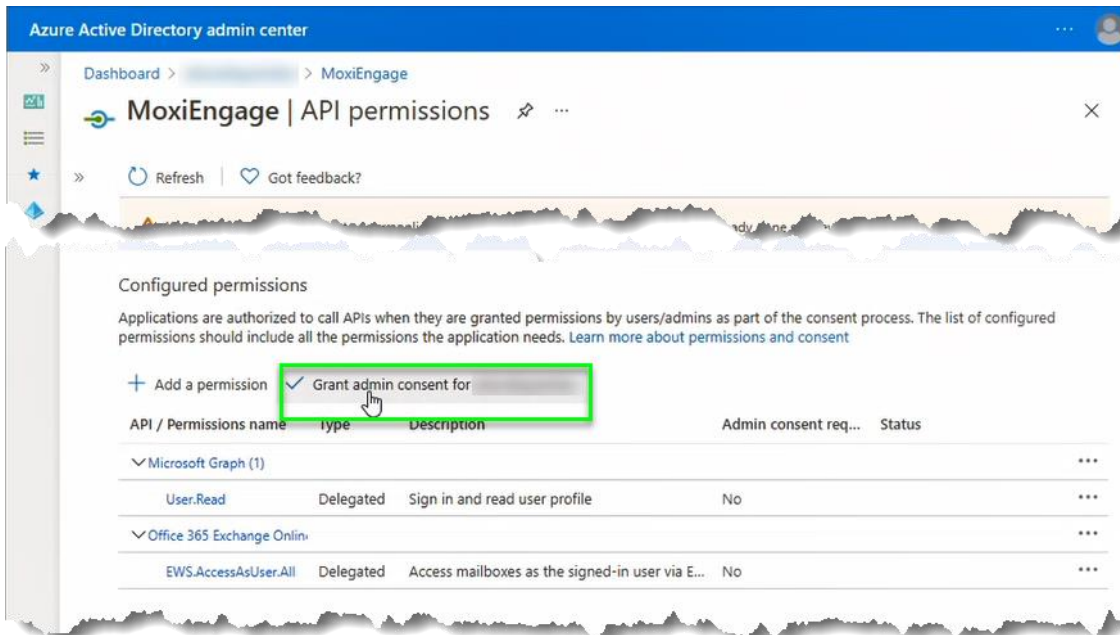
25. Observe the confirmation message and note that the selected permission has been added to the “Configured permissions” list.



The screenshot shows the Microsoft Azure portal interface. At the top, there's a notification: "Updating permissions" with the message "Successfully saved permissions for Engage Onprem." Below this, a warning message states: "You are editing permission(s) to your application, users will have to consent even if they've already done so previously." A blue information box explains the "Admin consent required" column. The main section is titled "Configured permissions" and includes a table with columns: "API / Permissions name", "Type", "Description", "Admin consent req...", and "Status". The table lists permissions for "Microsoft Graph (1)" and "Office 365 Exchange Online (1)". The "full_access_as_app" permission under "Office 365 Exchange Online (1)" is highlighted with a green box, showing its status as "Not granted for MoxiW...".

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	No	...
Office 365 Exchange Online (1)				
full_access_as_app	Application	Use Exchange Web Services with full access to all mail...	Yes	Not granted for MoxiW... ..

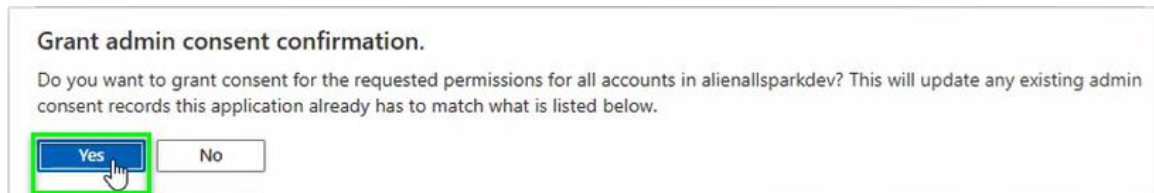
26. Click on the link to “Grant admin consent for” your domain.



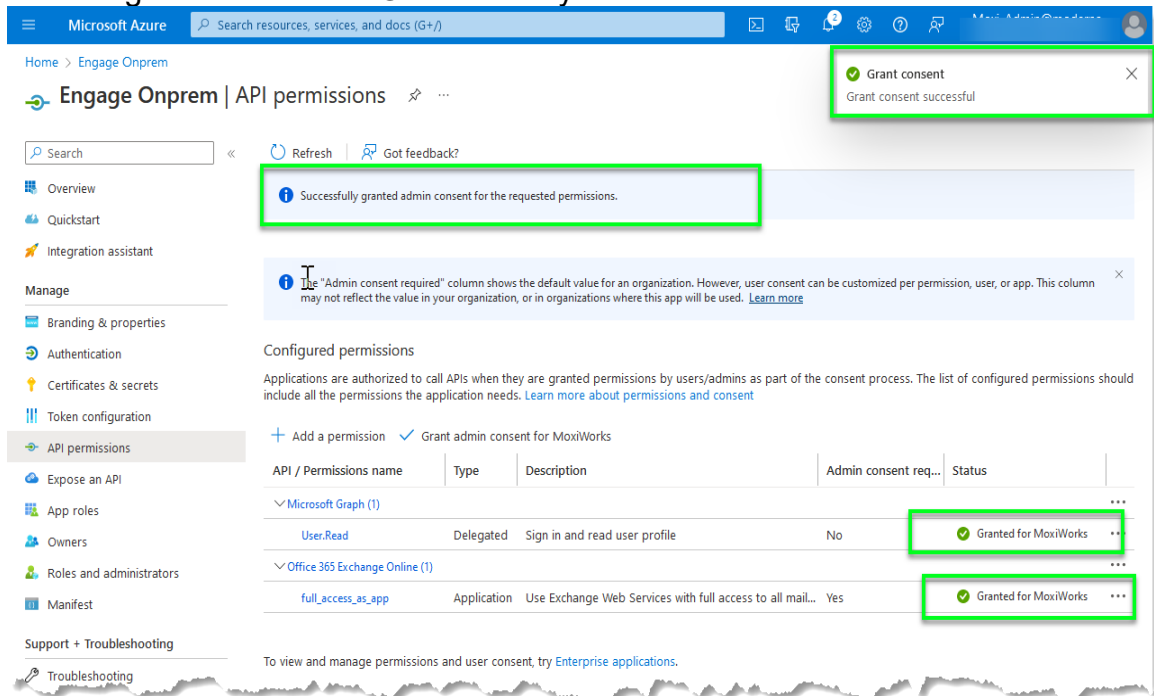
The screenshot shows the Azure Active Directory admin center interface. The page title is "MoxiEngage | API permissions". Below the title, there's a section titled "Configured permissions" with a description: "Applications are authorized to call APIs when they are granted permissions by users/admins 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". Below this, there's a link "Grant admin consent for" which is highlighted with a green box. The table below shows permissions for "Microsoft Graph (1)" and "Office 365 Exchange Online (1)".

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	No	...
Office 365 Exchange Online (1)				
EWS.AccessAsUser.All	Delegated	Access mailboxes as the signed-in user via E...	No	...

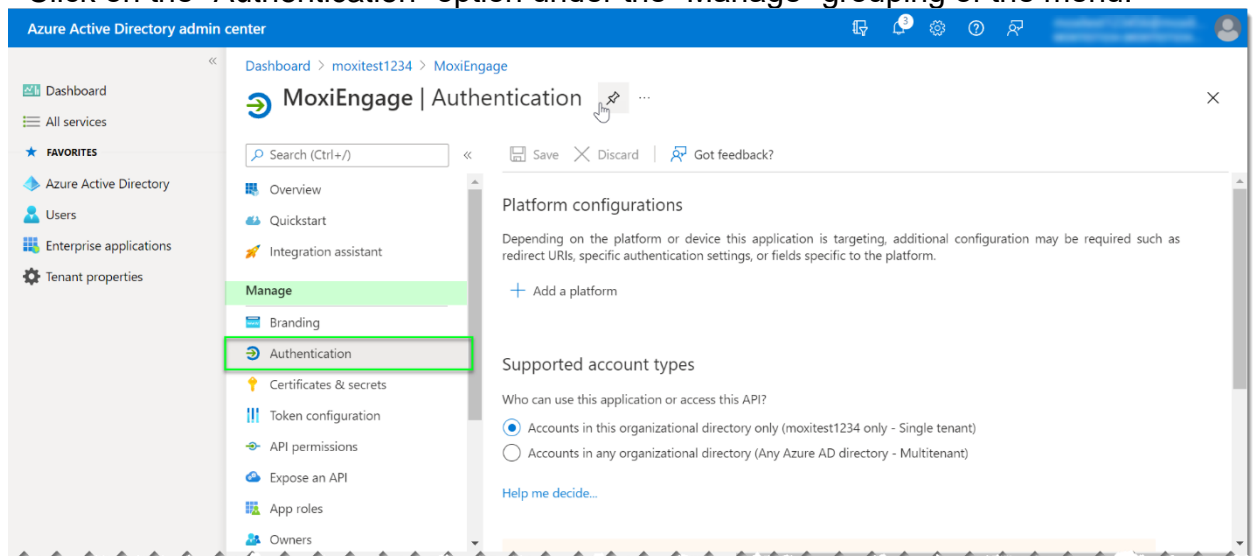
27. Click on the “Yes” button to confirm.



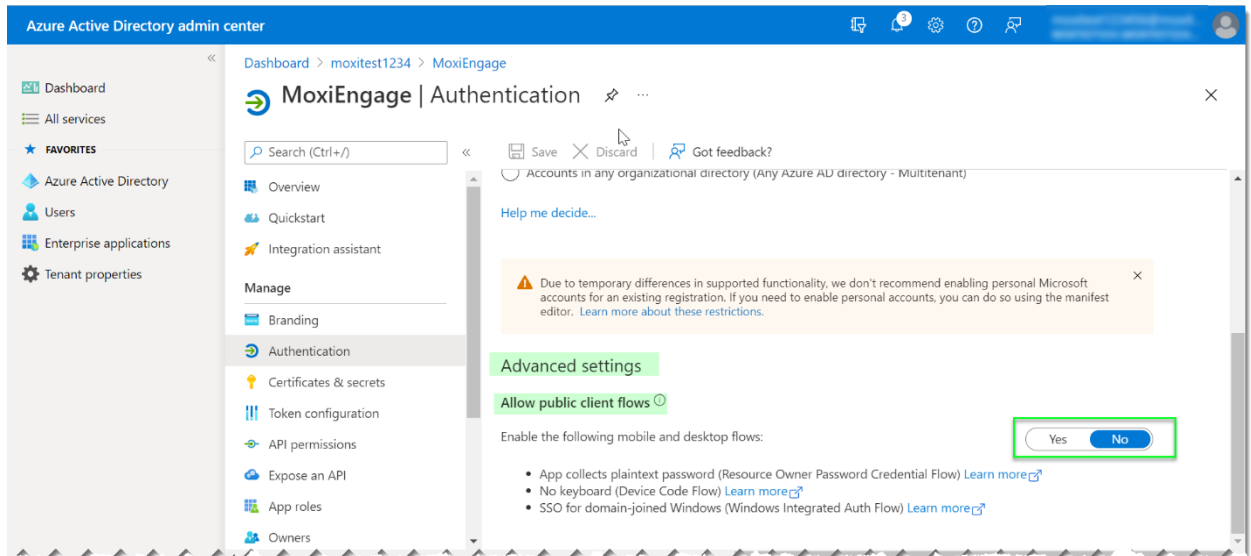
28. Observe the confirmation message(s) and the change in permission status indicating that consent is “Granted for” your domain.



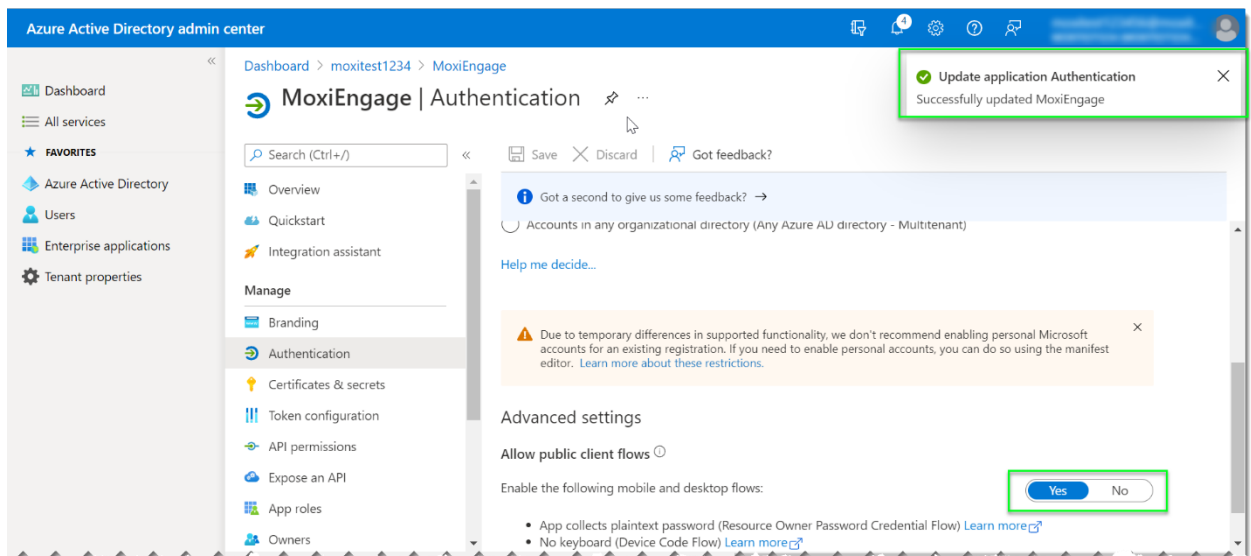
29. Click on the “Authentication” option under the “Manage” grouping of the menu.



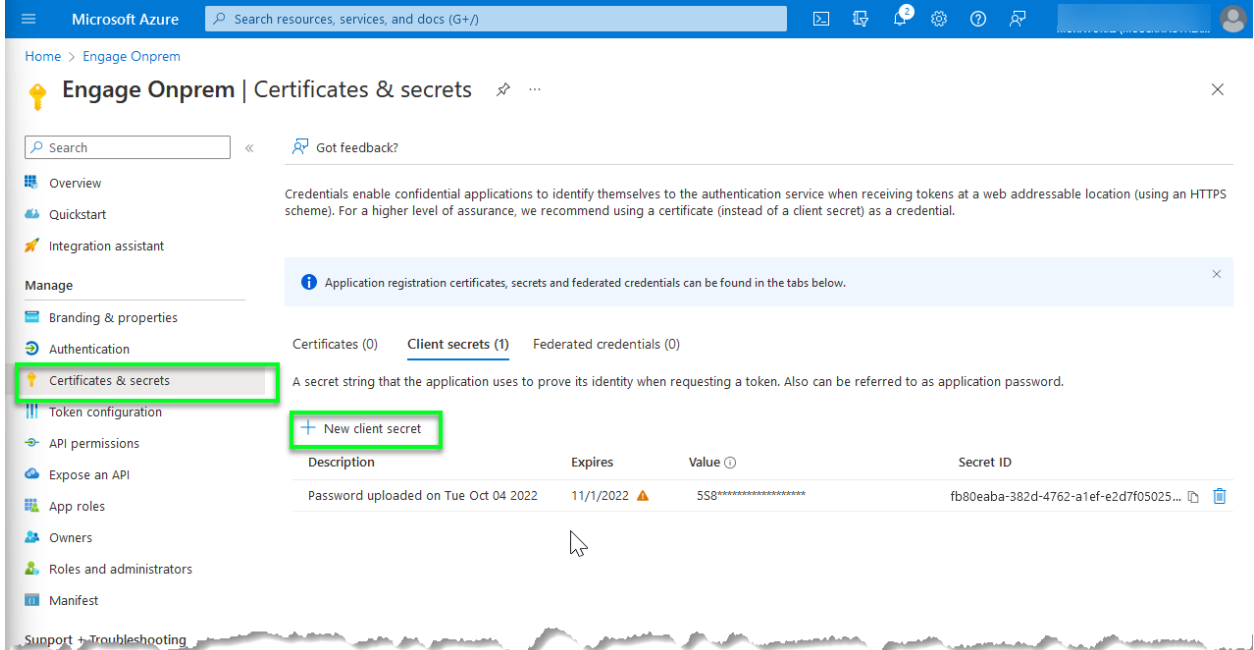
30. Scroll down to “Advance settings”, locate the “Allow public client flows” setting and change the setting to “Yes”.



31. Observe the confirmation message and the change in setting is “Yes”.



32. Click on the “Certificates & Secrets” option under the “Manage” grouping of the menu.



Microsoft Azure

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Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

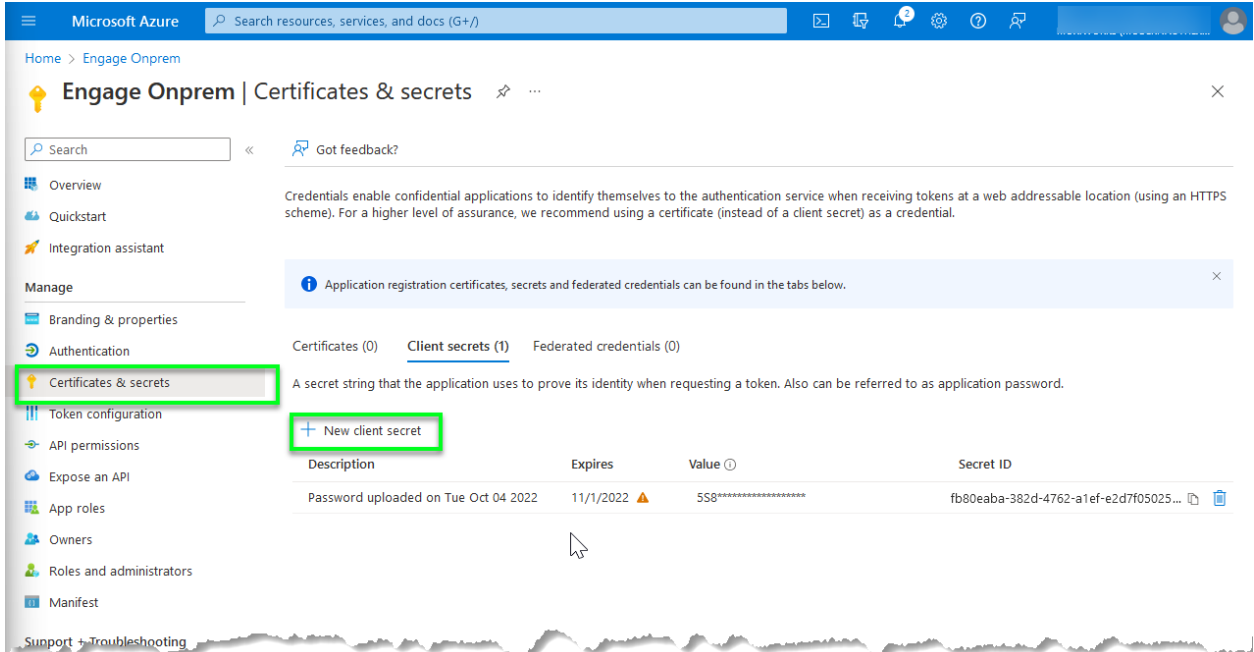
Certificates (0) **Client secrets (1)** Federated credentials (0)

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
Password uploaded on Tue Oct 04 2022	11/1/2022	558*****	fb80eaba-382d-4762-a1ef-e2d7f05025...

33. Click “New client secret”.



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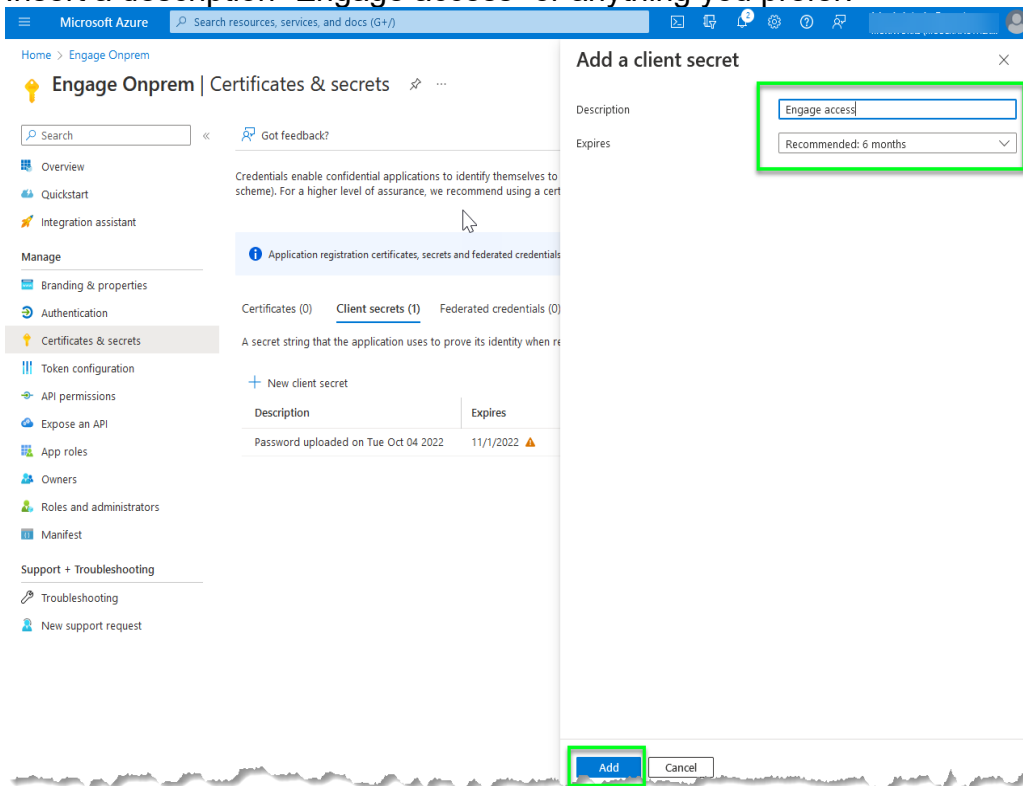
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A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

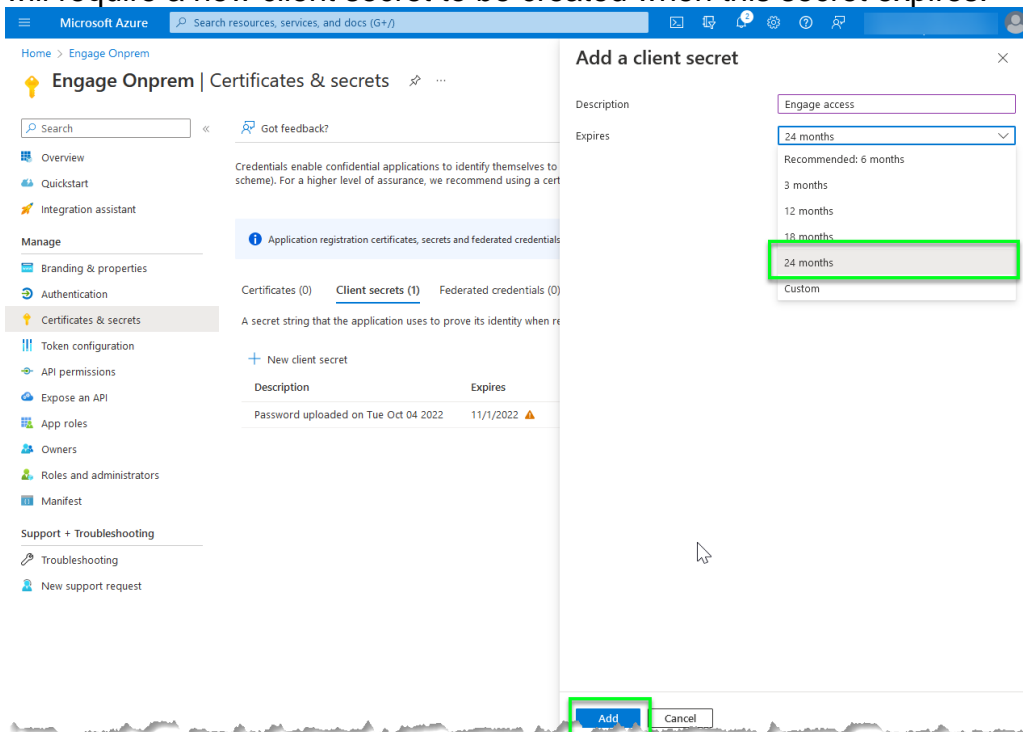
+ New client secret

Description	Expires	Value	Secret ID
Password uploaded on Tue Oct 04 2022	11/1/2022	558*****	fb80eaba-382d-4762-a1ef-e2d7f05025...

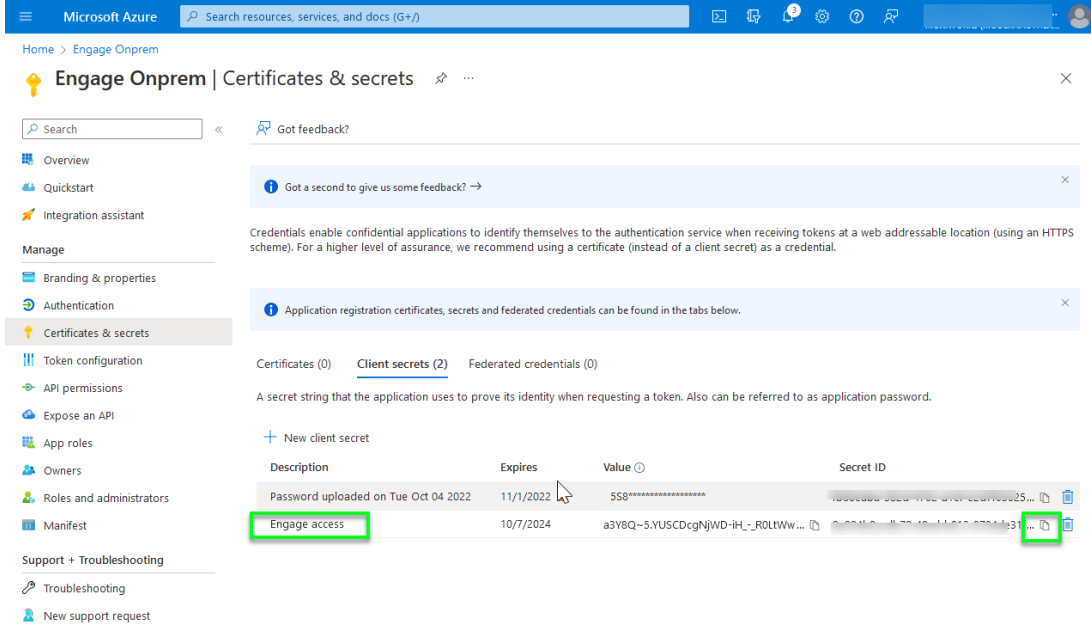
34. Insert a description “Engage access” or anything you prefer.



35. In the Expires dropdown menu select a date you would like to grant access to Engage. Please record this date as you will need this information when submitting your credentials. **We recommend a minimum of 2 years.** Note we will require a new client secret to be created when this secret expires.



36. Find the secret you just created in the list. Click icon to copy the secret into a location to be submitted later.



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Got a second to give us some feedback? →

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Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (2) 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
Password uploaded on Tue Oct 04 2022	11/1/2022	558*****	...
Engage access	10/7/2024	a3Y8Q~5.VUSCDcgNJWD-IH_-ROLIWW...	...

37. Provide to MoxiWorks the values you have saved for the registered application Client ID (step 11), Tenant ID (step 13), the client secret (step 36), and a **standard (non-administrator) user account that may be used for testing the impersonation setup.**

Submit Credentials to MoxiEngage

Once the above process is completed, please submit your credentials to us through this [Cognito](#) form.

Tips and Further Information

- Why is this process necessary for Engage to function for our agents?
 - Engage functions through a sync between itself and an agent's email. Without an email to sync to Engage cannot work.
 - Engage can sync to an office-provided MS365 or Google Workspace account, provided that your office completes the Integration Process.
 - Integration process can only be completed by someone with admin credentials to the office email tenant.

- Once you've completed the process you must submit those credentials to us here:
<https://www.cognitofrms.com/MoxiWorks2/moxiworksrealogyenga gecredentialsform>
- If you do not have an office provided email or prefer not to do this process for any reason, your agents will always have the option to sync using a Free Gmail account. No further action is required by your office in this case.
- Notes about known issues and what to do:
 - 3rd Party Provided Email - Offices with email accounts purchased through third party companies such as Go-Daddy may not be able to complete process due to limitations they place on admin access. Your agents will still be able to sync with Free Gmail.
 - Access / Permissions - If you do not have admin privileges to your email tenant you must escalate to someone who does or reach out to your email provider. Moxi cannot assist you with your permissions in your email tenant.
 - Stuck? - If you are stuck on a step of the process, compare your screen to the screenshot shown for that step and ensure they look the same. Additionally, each section of the process includes a time stamp and link to a video going through the process step by step.
 - Failed Submission – If you have submitted credentials and have subsequently been notified that your submission failed, we recommend redoing the setup process entirely. During this new setup, do not use anything created in the previous attempt, instead create a new service account with a new name, etc. If you use any previously created accounts, permissions, etc you will likely experience the same issue.
 - Most offices that have resubmitted credentials after failing their first submission passed on their 2nd attempt.
 - When redoing the process, it is critical that any field where you name something is filled in differently than your previous attempt. If you reuse names from a previous attempt this will likely cause an issue, even if you have deleted the previously created account / permission. We recommend putting a number at the end of the name that reflects the attempt # (i.e. MoxiEngage2 & Impersonation2).
 - If you continue to have issues we recommend reaching out to your email provider and requesting assistance.



Related Resources

[Google Workspace Support](#)

Microsoft Office Support

The following resources may provide additional information you need to perform the requisite tasks:

[Compare Active Directory to Azure Active Directory](#)

[Azure AD PowerShell Module](#)

[Connect to Microsoft 365 with PowerShell](#)

[Set an individual user's password to never expire](#)