HOWTO: Setup Azure AD to work with World of Workflows

Introduction

This document describes how to setup Azure AD to work with World of Workflows. World of Workflows includes a **Credential Manager** which allows you to store and process credentials for external applications. However to connect to Azure AD you need to setup a **Registered Application** and connect the credential. This simple guide shows you how to perform that.

Prerequisites

• Application Read/Write/Create Permissions in your Azure AD

Output Table

Complete this table as you move through the steps

Item	Value	Description	
Client Secret		This is a secret value that identifies this application	
Authorization URL		This is the URL Workflows will use to access Azure AD	
Access Token URL		This is the Access Token URL Workflows will use to access Azure AD	
Client ID		This is the Client ID Workflows will use to access Azure AD	
Scope	offline_access Mail.ReadWrite Mail.Send	This is the Scope Workflows will use to access Azure AD	

Steps to configure Azure AD

1. Connect to Microsoft Azure Portal and navigate to Azure AD. Alternatively click here

Welcome to Azure!

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Manage Azure Active Directory

Azure Active Directory is becoming Microsoft Entra ID. Secure access for everyone.



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Azure services





















resource

Directory

Quickstart Center

Virtual machines

App Services

accounts

SQL databases

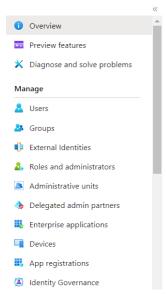
DB

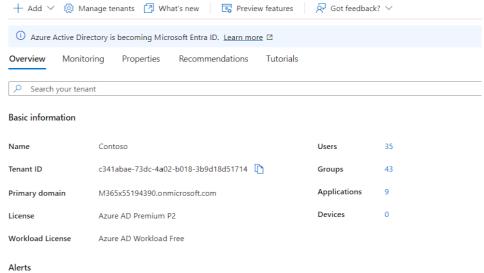
services

More services

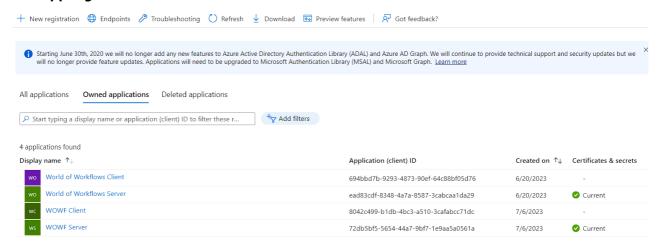
Home >







2. Click **App registrations** on the left menu or click here.



3. Click **New registration**

4. Type the name of this application. It's important to make this something you can understand later. In this example, we're going to call it **World of Workflows HOWTO**. Ensure **Accounts in this organizational directory only** is checked and click **Register**.

Home > Contoso | App registrations >

Register an application

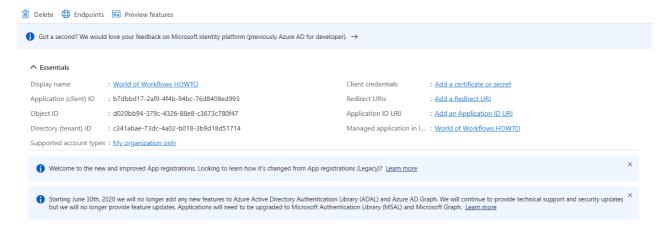
* Name					
The user-facing display name for this application (this can be changed later).					
World of Workflows HOWTO					
Supported account types					
Who can use this application or access this API?					
Accounts in this organizational directory only (Contoso only - Single tenant)					
Accounts 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.					
Select a platform V e.g. https://example.com/auth					
By proceeding, you agree to the Microsoft Platform Policies ☐					
Register					

5. Click on **Endpoints**

Endpoints



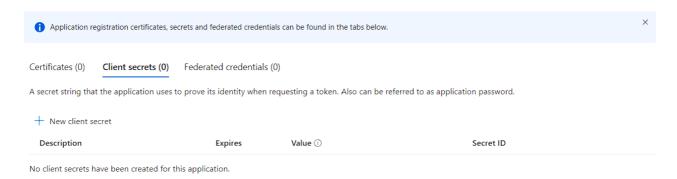
- 6. Copy the OAuth 2.0 authorization endpoint (v2) into the Authorization URL field in the table above
- 7. Copy the OAuth 2.0 token endpoint (v2) into the Access Token URL field in the table above
- 8. Close Endpoints



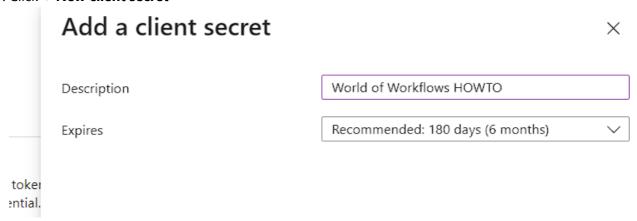
9. Copy the Application (client) ID into the table above under Client ID

10. Choose **Certificates and secrets** from the menu on the left

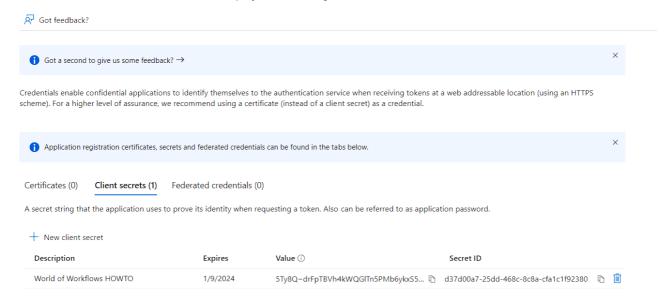
Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.



11. Click + New client secret



12. Now give the secret a description and an expiry date. In this example, we're going to call it **World of Workflows HOWTO** and set the expiry to **180 days**. Click **Add**



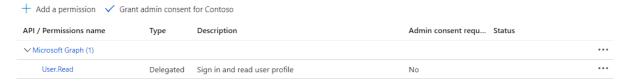
13. **IMPORTANT** Copy the value of the secret in the table above. You will need this later and this is the last time it will appear in the portal. If you lose this value, you will need to create a new secret.

14. Click API Permissions omn the left pane

1 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 i organizations where this app will be used. <u>Learn more</u>

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

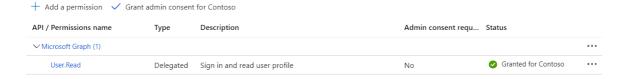


To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try Enterprise applications.

15. Click Grant Admin Consent and click Yes

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



16. Click **Authentication** on the left pane

Platform configurations

Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.

+ Add a platform

Supported account types

Who can use this application or access this API?

Accounts in this organizational directory only (Contoso only - Single tenant)

Accounts in any organizational directory (Any Azure AD directory - Multitenant)

Help me decide...

17. Click **Add a Platform**

Configure platforms



Web applications



Web

Build, host, and deploy a web server application. .NET, Java, Python



Single-page application

Configure browser client applications and progressive web applications. Javascript.

Mobile and desktop applications



iOS / macOS

Objective-C, Swift, Xamarin



Android

Java, Kotlin, Xamarin



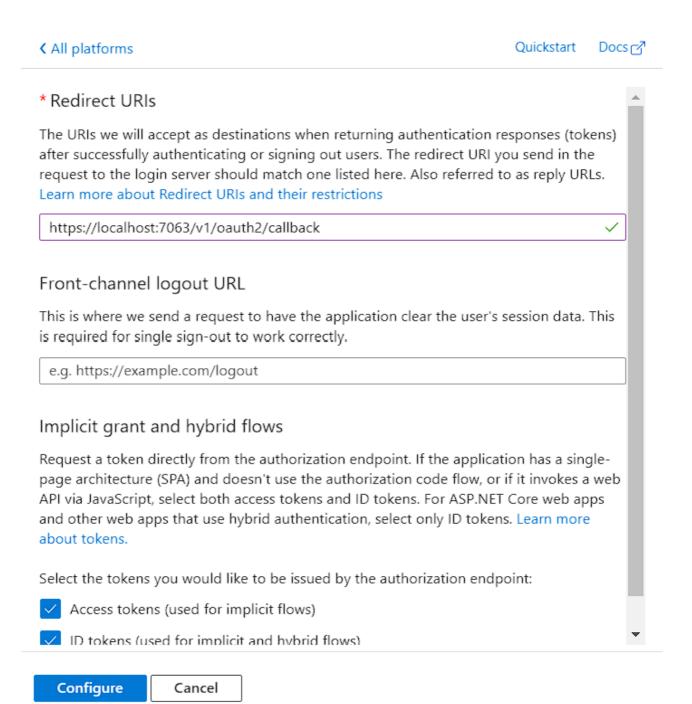
Mobile and desktop applications

Windows, UWP, Console, IoT & Limited-entry Devices, Classic iOS + Android

- 18. Click Web
- 19. Enter the redirect URI https://localhost:7063/v1/oauth2/callback for Personal Edition, for Business Edition, the address will be https://www.server>/v1/oauth2/callback

Configure Web





20. Check Access Tokens and ID Tokens and click Configure

Finally you need to choose scopes. These will determine what actions World of Workflows will perform with Office 365 and Azure AD.

There are hundreds of scopes available here however here are some common ones:

- **offline_access** always add this scope to ensure that the system keeps a persistent conneciton with Azure AD and you don't need to continually reauthenticate.
- Mail.ReadWrite Allows the app to create, read, update, and delete email in user mailboxes. Does not include permission to send mail.

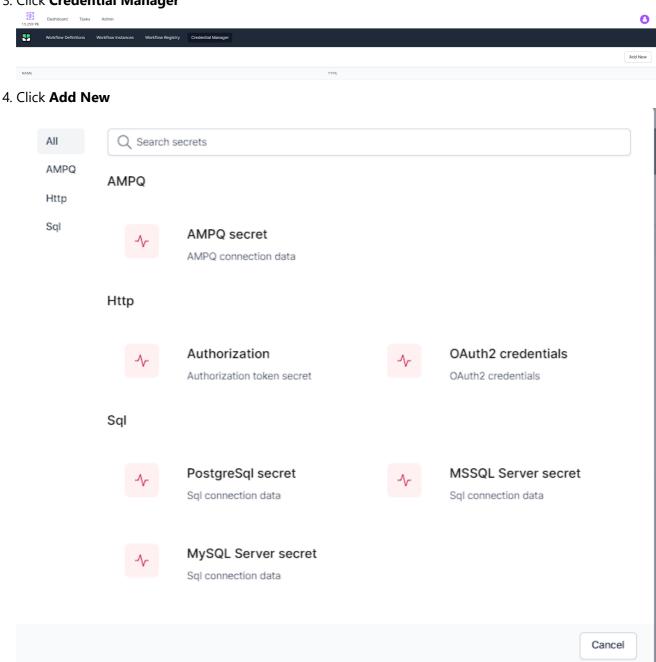
• Mail.ReadWrite.Shared - Allows the app to create, read, update, and delete mail that the user has permission to access, including the user's own and shared mail. Does not include permission to send mail.

• Mail.Send - Allows the app to send mail as users in the organization.

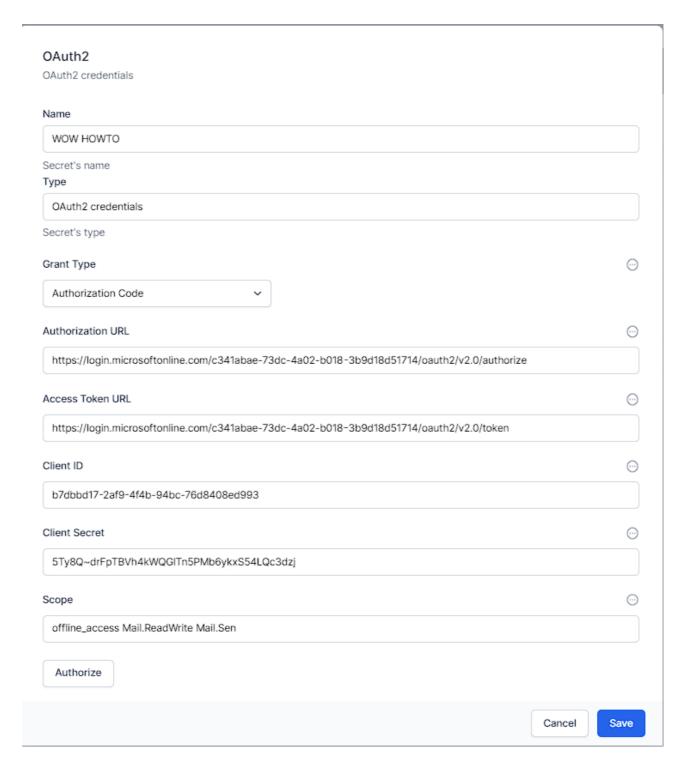
Record the ones you need in the table above.

Configure a credential in World of Workflows

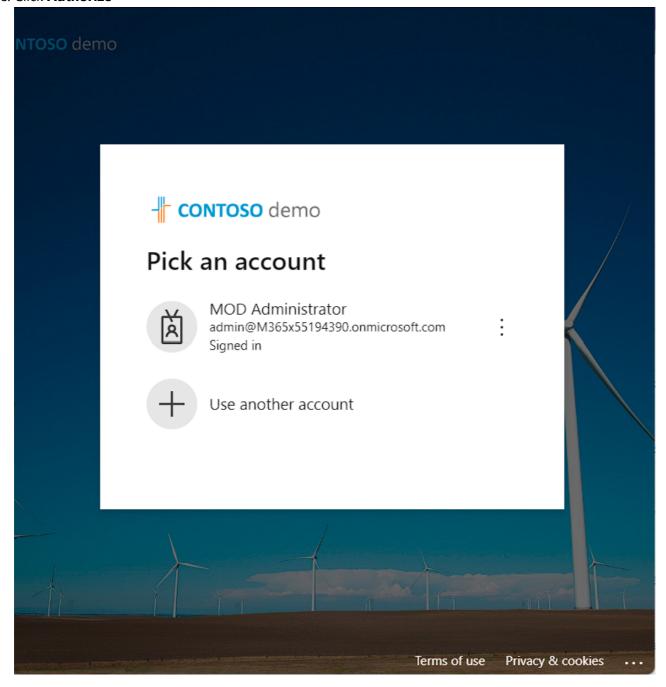
- 1. Navigate to World of Workflows
- 2. Click Admin -> Workflows
- 3. Click Credential Manager



- 5. Choose oAuth2 credentials
- 6. Give your new credential a name, and change the Grant Type to Authorization Code
- 7. Now enter the **Authorization URL**, **Access Token URL**, **Client ID**, **Client Secret** and **Scope** from the table above.



8. Click **Authorize**



9. Login to Azure AD.'



admin@m365x55194390.onmicrosoft.com

Permissions requested

World of Workflows HOWTO App info

This application is not published by Microsoft.

Inis	app	would	like	to:	

- Maintain access to data you have given it access to
- Read and write access to your mail
- Send mail as you
- View your basic profile
- Consent on behalf of your organization

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at https://myapps.microsoft.com. Show details

Does this app look suspicious? Report it here

Cancel Accept

- 10. Check the permissions are correct and click **Accept**
- 11. Finally, click Save when returned to Credential Manager

This credential is now available for use when calling Microsoft Graph using HTTP or through any Office 365 or Microsoft Graph plugin.