

How to connect Fractal One with Microsoft Copilot Studio using MCP OAuth?

 help.fractal.com/hc/en-us/articles/48058910754189-How-to-connect-Fractal-One-with-Microsoft-Copilot-Studio-using-MCP-OAuth

Connecting Fractal One with Microsoft Copilot Studio allows you to query your maintenance data in natural language within the Microsoft 365 ecosystem, without leaving Copilot. The connection is made from an agent created in Copilot Studio, using the MCP (Model Context Protocol) with OAuth 2.0 authentication, and the agent accesses Fractal with the same permissions as the authenticated user.

Requirements

- Active Fractal One account with administrator permissions or access to Settings.
- Access to the API Connections section within Fractal One.
- Microsoft Copilot Studio license with maker permissions in the Power Platform environment.
- A permission group defined in Fractal One with the data scope you want to expose to the agent.

Fractal One connection data

These values are fixed and you will use them during the configuration in Copilot Studio.

Field	Value
MCP server URL	<code>https://one.fractal.com/mcp/oauth/fractal-one</code>
Authorization URL	<code>https://one.fractal.com/oauth/authorize</code>
Token URL	<code>https://one.fractal.com/oauth/token</code>
Refresh URL	<code>https://one.fractal.com/oauth/token</code>
Scopes	Leave empty. Fractal One controls the scope through the permission group.

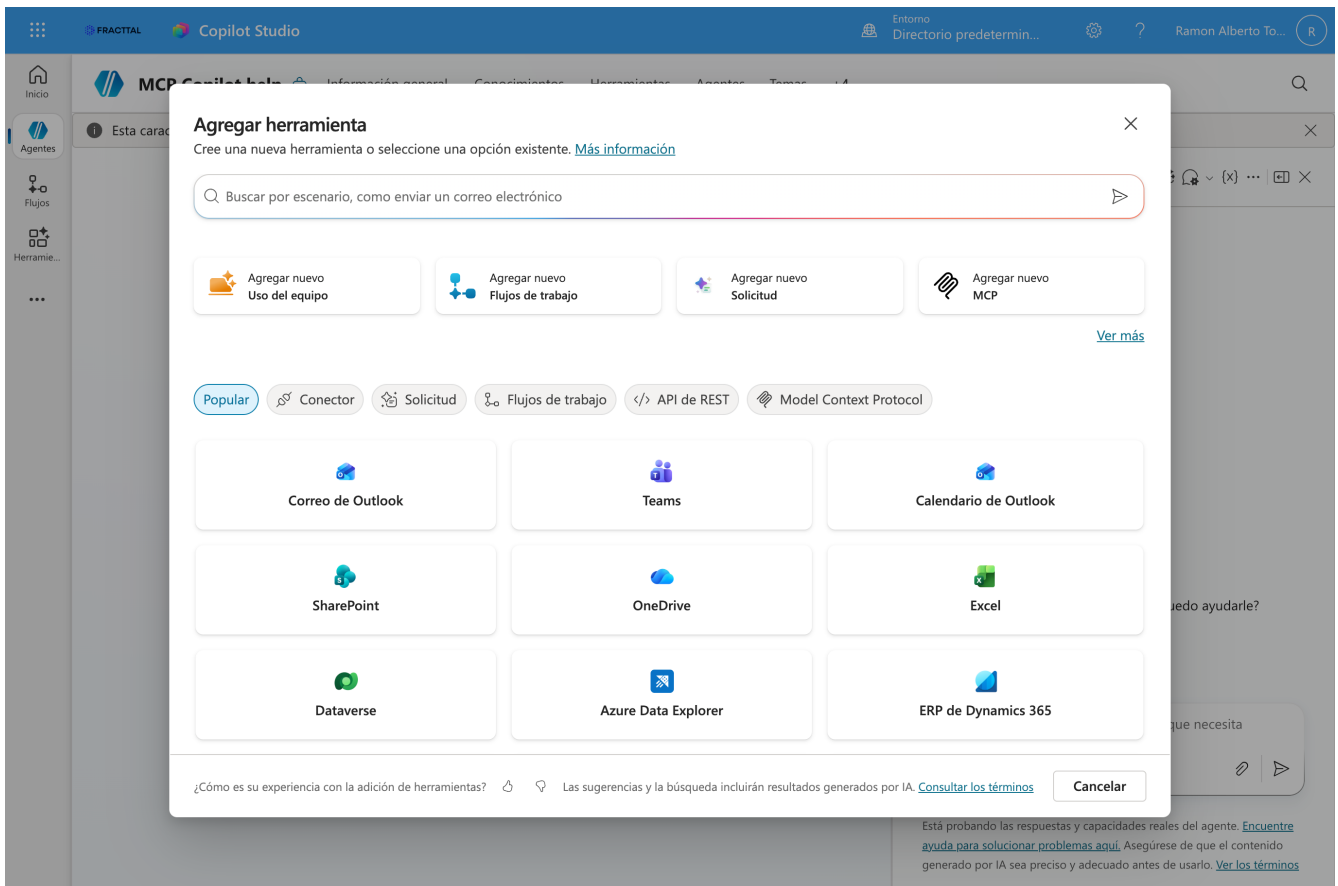
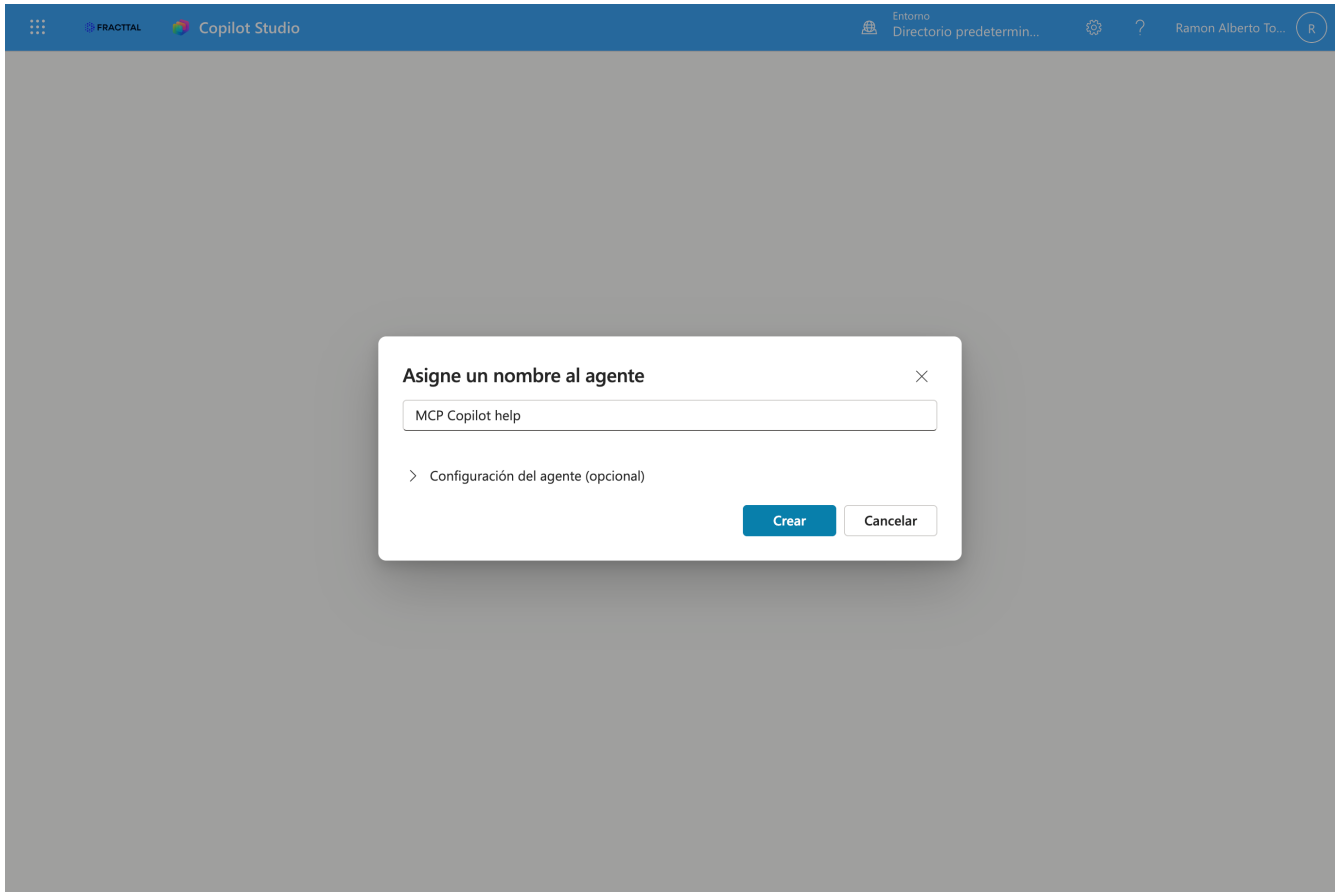
Note: The authorization and token URLs are at the root of the domain. They do not include `/api/` or `/mcp/` in the path.

Step by step

1. Create the MCP server in Copilot Studio

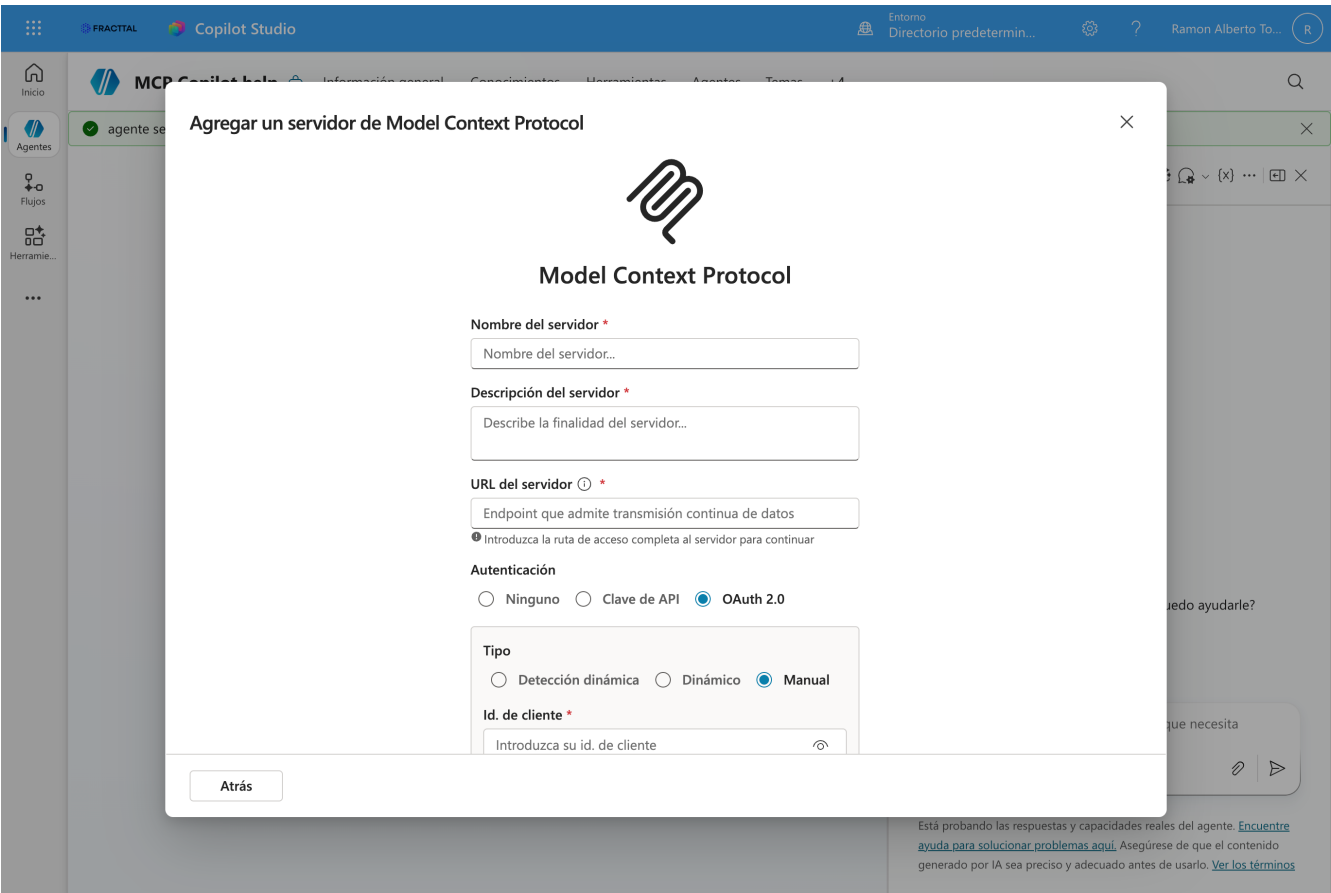
In your agent, go to **Tools** › **Add a tool** › **New tool** › **Model Context Protocol**.

[illegible]



Fill in the fields:

Field	Value
Name	Fractal One (or any name you prefer)
Server description	A clear description of what the server does. The agent uses this text to decide when to query Fractal One.
Server URL	https://one.fractal.com/mcp/oauth/fractal-one
Authentication	OAuth 2.0
Type	manual



Agregar un servidor de Model Context Protocol

Model Context Protocol

Nombre del servidor *

Nombre del servidor...

Descripción del servidor *

Describe la finalidad del servidor...

URL del servidor ⓘ *

Endpoint que admite transmisión continua de datos

● Introduzca la ruta de acceso completa al servidor para continuar

Autenticación

☐ Ninguno ☐ Clave de API ☒ OAuth 2.0

Tipo

☐ Detección dinámica ☐ Dinámico ☒ Manual

Id. de cliente *

Introduzca su id. de cliente

Atrás

Important: The **Type** field offers three options and only **manual** works with Fractal One. The **Dynamic detection** option tries to locate the configuration automatically and the **Dynamic** option tries to register the client on its own, which Fractal One rejects for security reasons.

2. Create the OAuth consumer in Fractal One

In another tab, log in to Fractal One. In the upper right corner, click the user menu and select **Settings**. In the side menu, select **API Connections** and then click the **OAuth Consumers** tab.

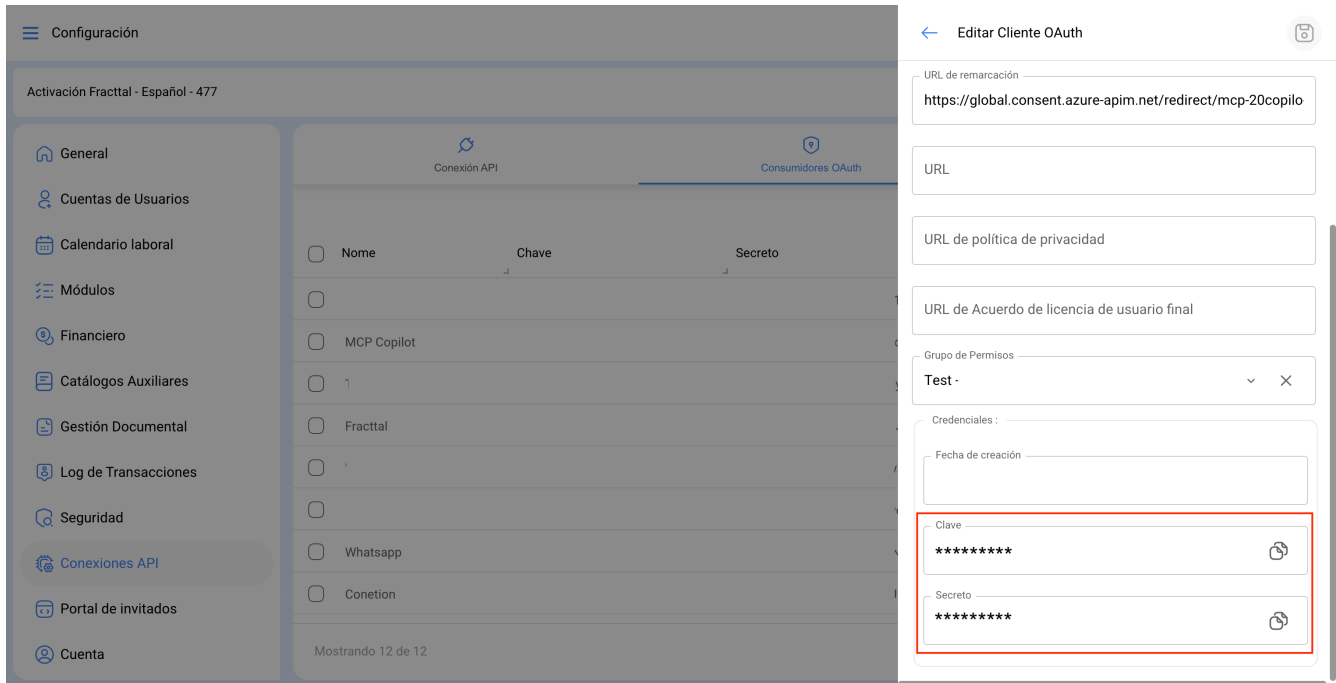
Click the (+) button to add a new consumer and fill out the form:

Field	Value
Authorization type	Authorization code
Name	The connection name you prefer (e.g., COPILOT MCP)
Redirect URL	<code>https://global.consent.azure-apim.net/redirect</code> (temporary value, you will replace it in Step 5)
Permission Group	Select the desired permission group. <i>However, the system will use the permissions of the authenticated user.</i>

Once the form is completed, click the **Save** icon in the upper right corner.

3. Copy the generated key and secret

Upon saving, Fractal One automatically generates a **Key** and a **Secret** for the consumer.

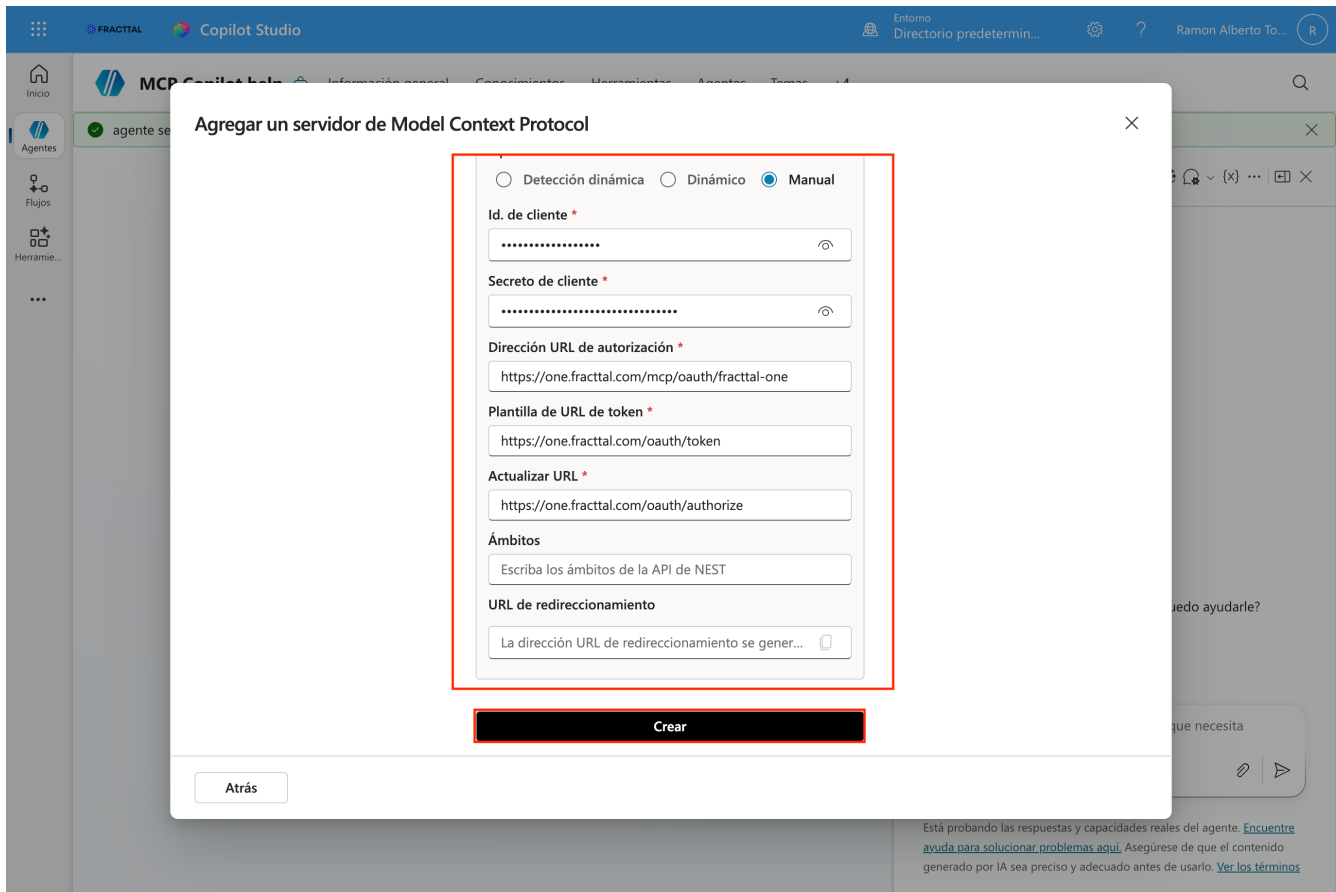


Important: The **Secret** is shown only once and grants read and write access to the data of the selected permission group. Save both values in a password manager and do not share them in screenshots or messages. If the secret is exposed, create a new consumer and replace the credentials.

4. Complete the manual authentication in Copilot Studio

Return to the Copilot Studio window, with **Type** set to **manual**, and fill in the fields:

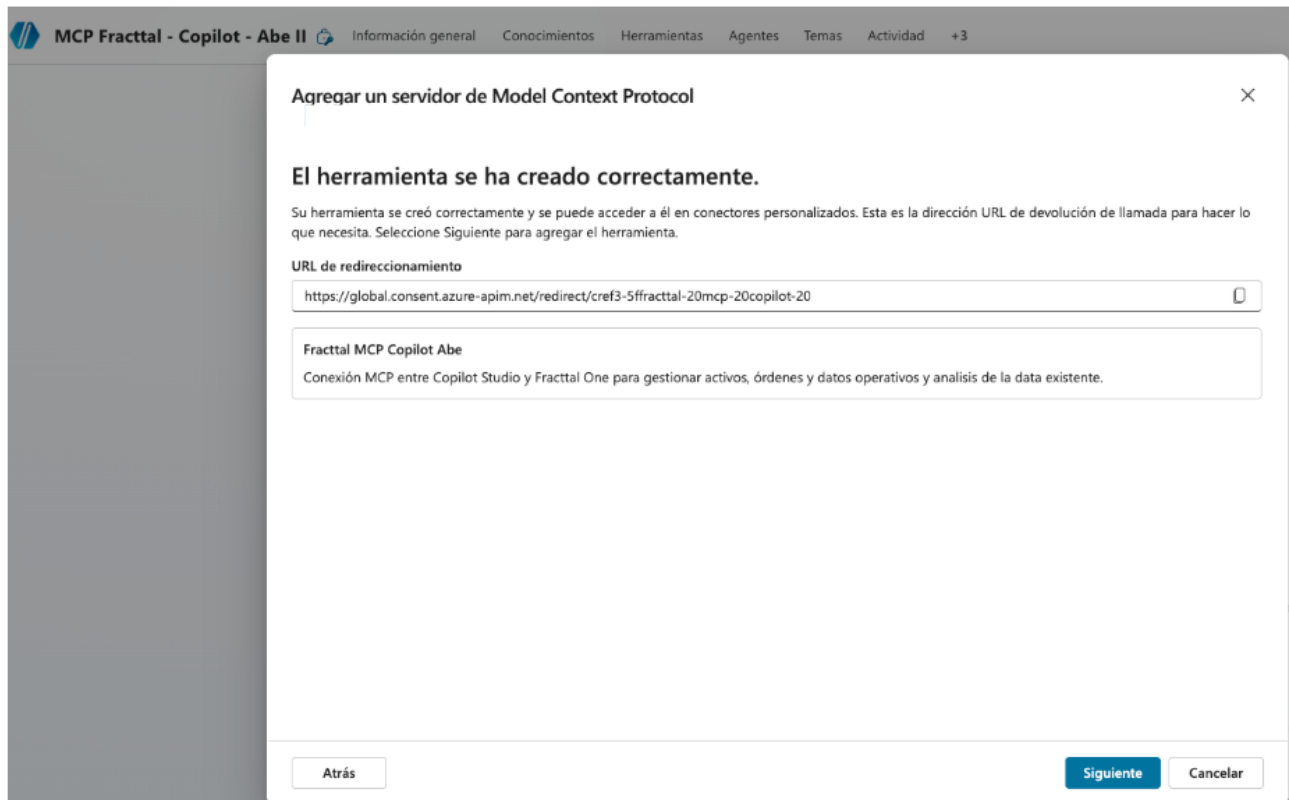
Field	Value
Client ID	Paste the Key generated in Step 3
Client secret	Paste the Secret generated in Step 3
Authorization URL	<code>https://one.fractal.com/oauth/authorize</code>
Token URL template	<code>https://one.fractal.com/oauth/token</code>
Refresh URL	<code>https://one.fractal.com/oauth/token</code>
Scopes	Leave empty



Click **Create**. Copilot Studio generates a unique **Redirect URL** that combines the Azure base URL with a connector identifier suffix.

5. Synchronize the redirect URL in Fractal One

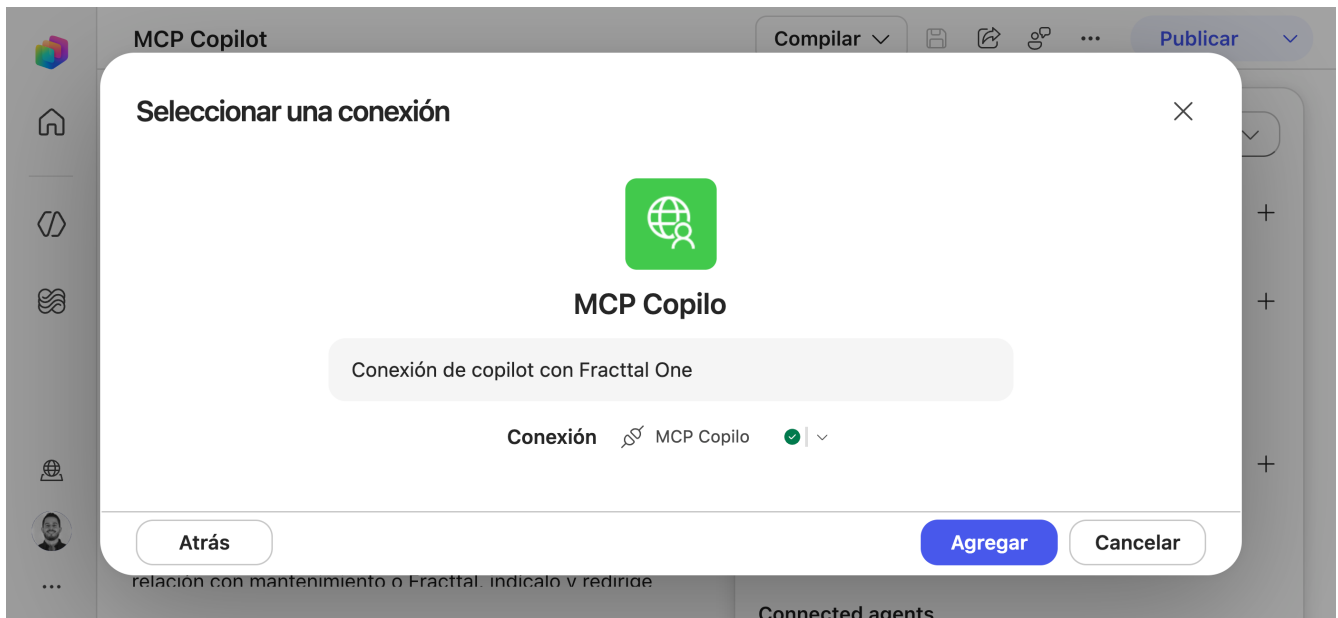
Copy the full redirect URL generated by Copilot Studio. Go back to Fractal One, open the OAuth consumer created in Step 2, replace the **Redirect URL** field value with the full URL including the suffix, and click **Save**.



Important: Fractal One compares the redirect URL character by character. If the consumer keeps the base URL, authorization will fail with a redirect URL mismatch error. If the error persists, try adding or removing the trailing slash (/).

6. Connect and authorize

On the **Add tool** screen in Copilot Studio, expand the **Connection** selector and choose to create the connection. A Fractal One authorization window opens, where you must log in and confirm access permissions.



After authorizing, a green indicator appears next to the connection name and the **Add and configure** button becomes available.

7. Validate the connection with a real query

In the agent configuration, confirm that **generative orchestration** is enabled. Without it, the agent recognizes Fracttal One tools but does not execute them.

Información general

Conocimientos

Herramientas

+6

Publicado el 11/8/2026

Publicar

Probar

Prueba tu agente

Nueva sesión de prueba

Evaluar

Modo Chat

Model Context Protocol

datasource_work_orders_list

Model Context Protocol

datasource_work_orders_list

Herramienta

datasource_work_orders_list

Model Context Protocol

datasource_work_orders_list

Herramienta

datasource_work_orders_list

Model Context Protocol

datasource_work_orders_list

Herramienta

Trabajando

datasource_work_orders_list

Model Context Protocol

Completado

Descripción

Entradas

append_to_dataframe (Boolean)

false

sql_query (String)

```
SELECT
COUNT(DISTINCT id_work_order) AS total_finalizadas,
SUM(CASE WHEN id_status_work_order = 3 THEN 1 ELSE 0
END) AS subtotal_completadas,
SUM(CASE WHEN id_status_work_order = 4 THEN 1 ELSE 0
END) AS subtotal_canceladas
FROM tasks.v_works_orders_list_new
```

Mostrar más

Salidas

_meta (Record)

1

{

2

"artifact_config": {

3

"ai_actions_multiple": [

4

{

"description": "ai_actions_work_order"

Editar configuración

Documentación

Hace un minuto

Dame un resumen de las OTs finalizadas este mes

Resumen de OTs Finalizadas — Noviembre 2026

He consultado la base de datos filtrando por **fecha de finalización** y **fecha de creación** dentro del periodo del **1 al 8 de noviembre de 2026**, y el resultado es el siguiente:

Resultado

Indicador	Valor
Total de OTs Finalizadas	0
Completadas (estado 3)	0
Canceladas (estado 4)	0

Observación

No se encontraron órdenes de trabajo finalizadas (ni completadas ni canceladas) durante el mes de noviembre de 2026, ya sea tomando como referencia la **fecha de creación** o la **fecha de finalización** de las OTs.

Esto puede deberse a:

- OTs aún en proceso o en revisión que no han sido cerradas todavía.

Formular una pregunta o describir lo que necesita

0/2000

Está probando las respuestas y capacidades reales del agente. [Encuentre ayuda para solucionar problemas aquí.](#) Asegúrese de que el contenido generado por IA sea preciso y adecuado antes de usarlo. [Ver los términos](#)

Ask a simple and verifiable question and compare the result with what you see in Fracttal One.

Done! You now have Fracttal One connected to your Microsoft Copilot agent.

Notes:

- Using this integration may involve consumption, limits, or charges associated with Microsoft services. These costs and conditions are determined exclusively by Microsoft.
- The agent may request confirmation before performing write actions (create, modify, or delete records). Always review proposed actions before confirming them.
- The user is responsible for validating and monitoring actions, automations, and results generated through third-party platforms connected to Fracttal, including those derived from instructions, configurations, prompts, or flows defined in those platforms.