

How to connect Fractal One with Power BI?

help.fractal.com/hc/en-us/articles/40394337880589-How-to-connect-Fractal-One-with-Power-BI

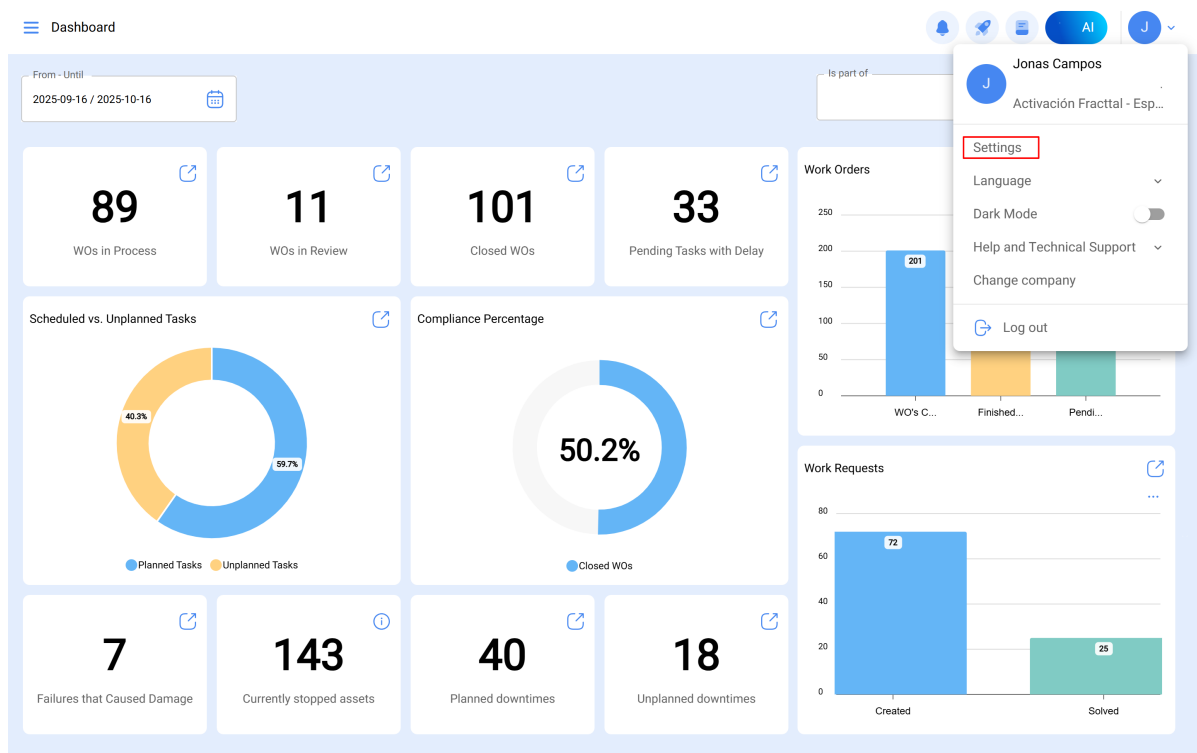
Fractal One allows integrating maintenance data with Power BI through a secure connection, using the API and the OAuth 2.0 authentication flow. Below, we show you how to properly configure data extraction so that Power BI can access the specific information needed for analysis and report generation.

Note: Before configuring the credentials for Power BI, make sure you have created an appropriate permission group. If you have not created one yet, check [How to add/create permission groups?](#) to learn how to do it.

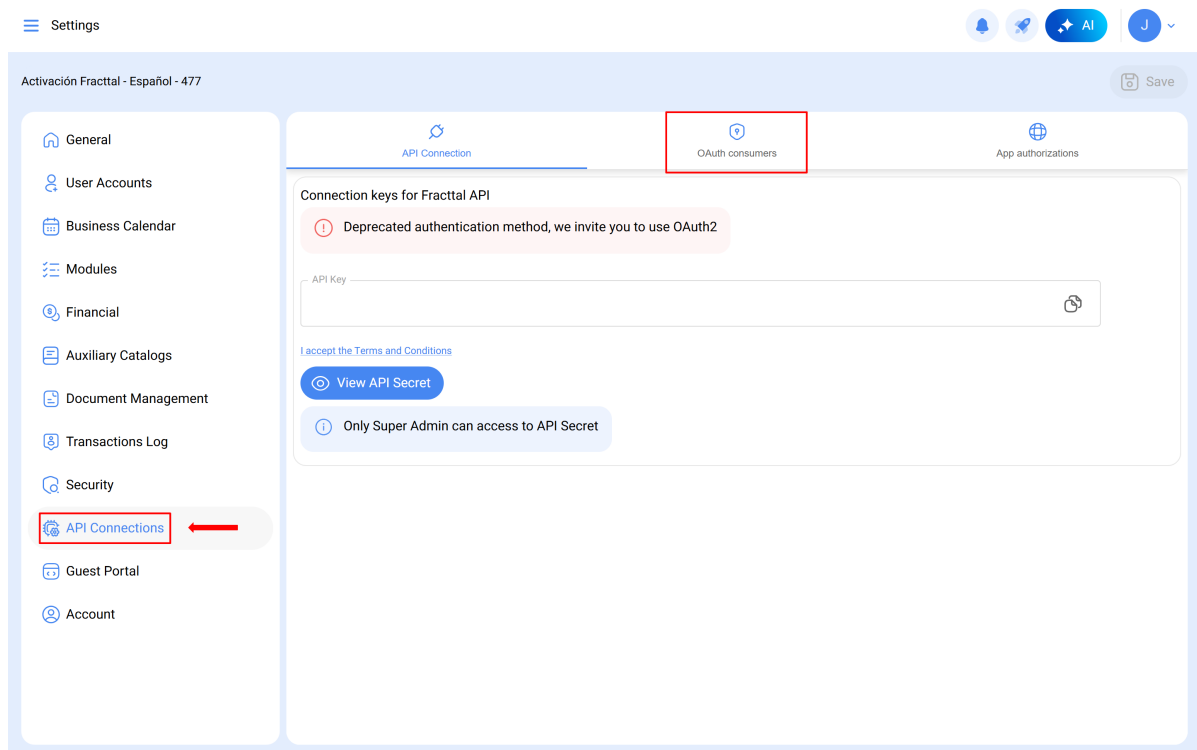
Create an OAuth client for the API

With the permission group already configured, now we will create the credentials that Power BI will use to authenticate.

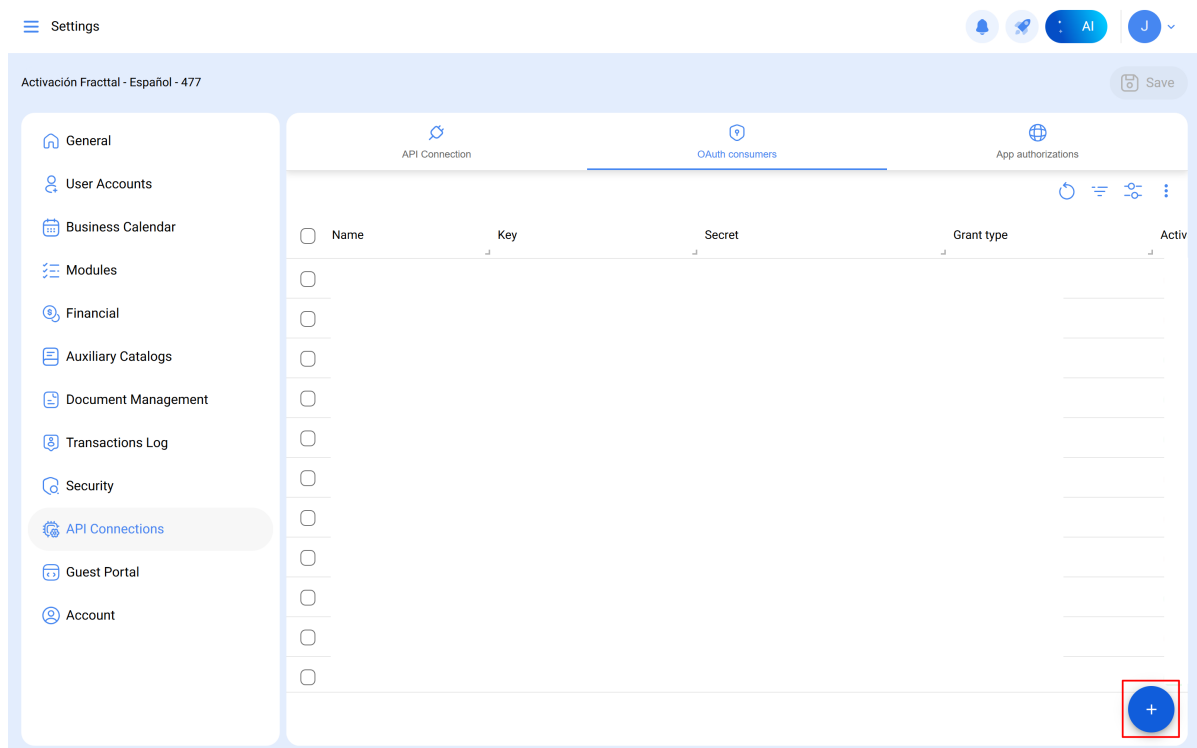
1. Access the **Settings** menu.



2. In the left side menu, click on **API Connections** and then select the middle tab, called **OAUTH CLIENTS**.



3. Click on (+) to add a new client.



4. In the "New OAuth Client" window, fill in the following fields:

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New OAuth consumer

Grant type

Grant type can't be blank

Name

Name can't be blank

Description

Group Permissions

No permission selected

Credentials :

Creation Date

Key

Secret

Authorization type: Select **Client credentials**. This is the ideal flow for machine-to-machine communication, as is the case with Power BI.

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OAuth consumers

New OAuth consumer

Grant type

Authorization code

Client credentials

Name can't be blank

Description

Group Permissions

No permission selected

Credentials :

Creation Date

Key

Secret

- **Name:** Assign a clear name for the connection, such as Power BI Connection.
- **Description (Optional):** Add more details about the purpose of the connection.

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Grant type

Client credentials

Name

Power BI Cconnection

Description

PBI

Group Permissions

Activate Fractal Hub (Middleware)

Credentials :

Creation Date

Key

Secret

Name	Key	Secret
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Permission group: select the group you created. This step links the credentials with the access permissions.

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Grant type

Client credentials

Name

Power BI Cconnection

Description

PBI

Group Permissions

TEST

Activate Fractal Hub (Middleware)

Credentials :

Creation Date

Key

Secret

Name	Key	Secret
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Click **Save** in the upper right corner.

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API Connection

OAuth consumers

Grant type: Client credentials

Name: Power BI Cconnection

Description: PBI

Group Permissions: TEST

☐ Activate Fractal Hub (Middleware)

Credentials:

Creation Date:

Key

Secret

After saving, the system will automatically generate and display the **Key** (Client ID) and the **Secret** (Client Secret).

- **Key:** The public identifier of your application (in this case, Power BI).
- **Secret:** The "password" of your application.

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API Connection

OAuth consumers

Grant type: Client credentials

Name: Power BI Cconnection

Description: PBI

Group Permissions: TEST

☐ Activate Fractal Hub (Middleware)

Credentials:

Creation Date: 2025-10-16 16:29

Key: XXXXXXXXXXXXXXXXXXXX

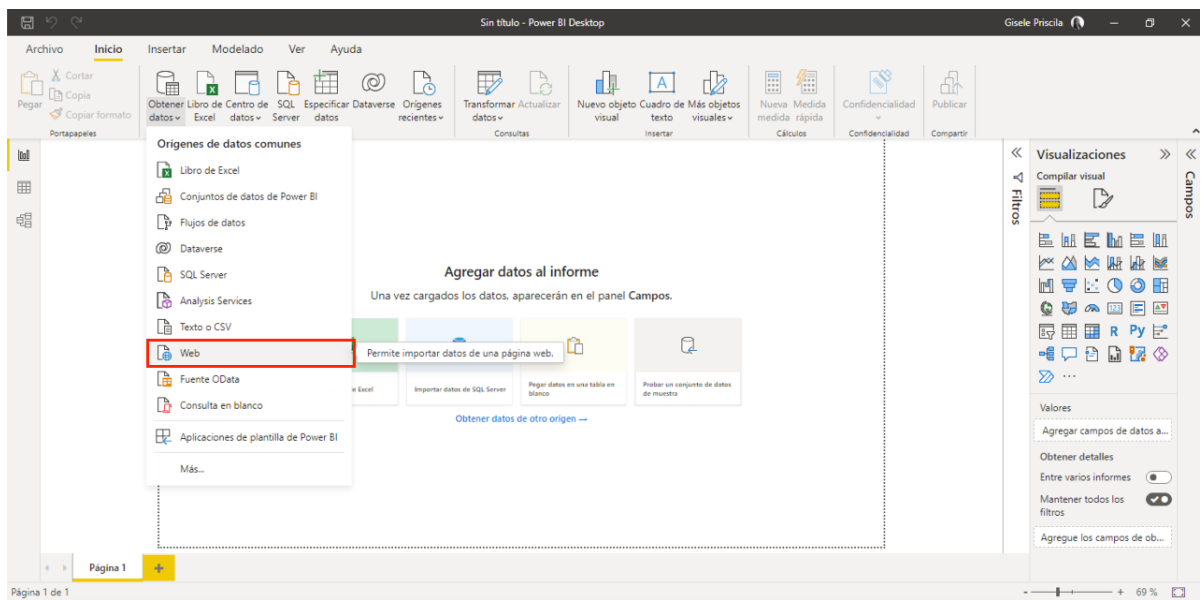
Secret: XXXXXXXXXXXXXXXXXXXX

✓ Consumer created successfully!

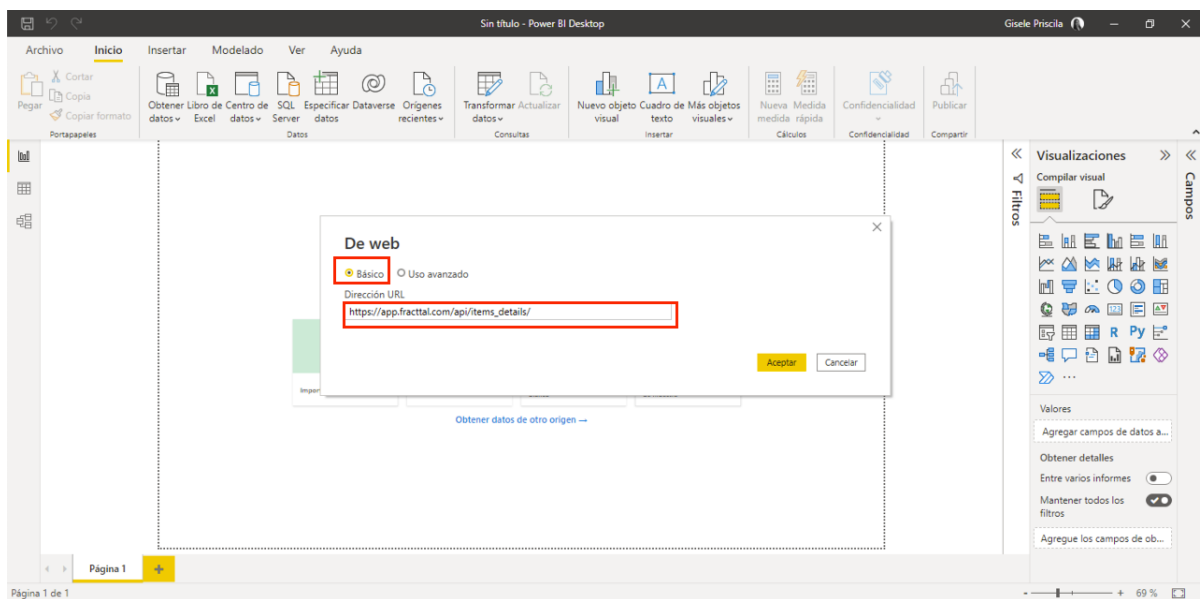
Write down or copy these two values. You will need them in the next step.

Direct connection

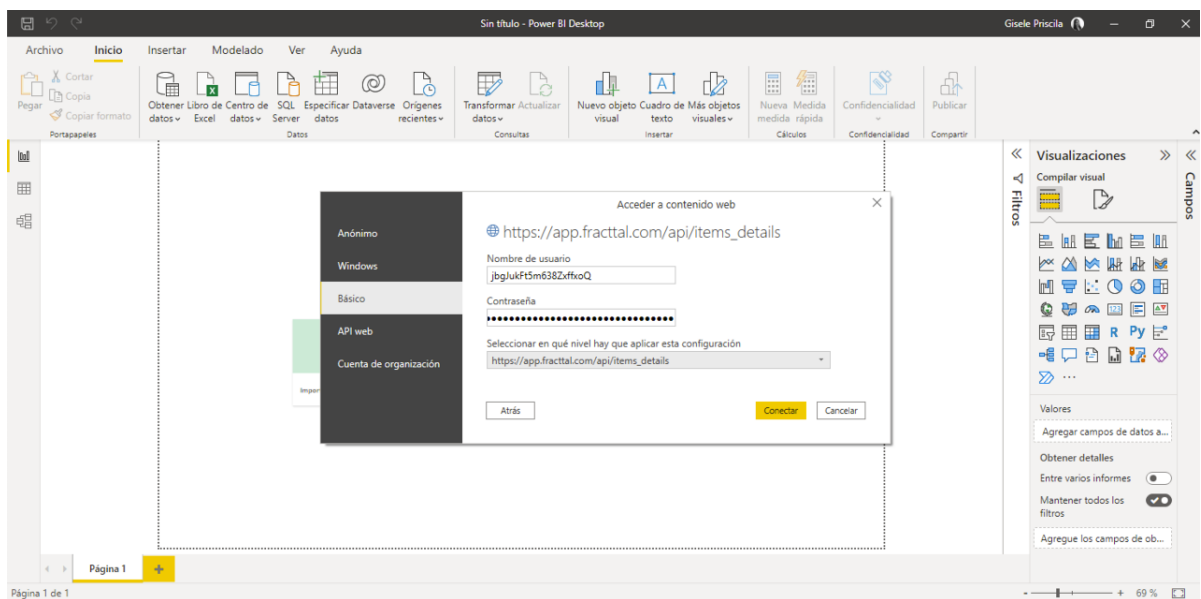
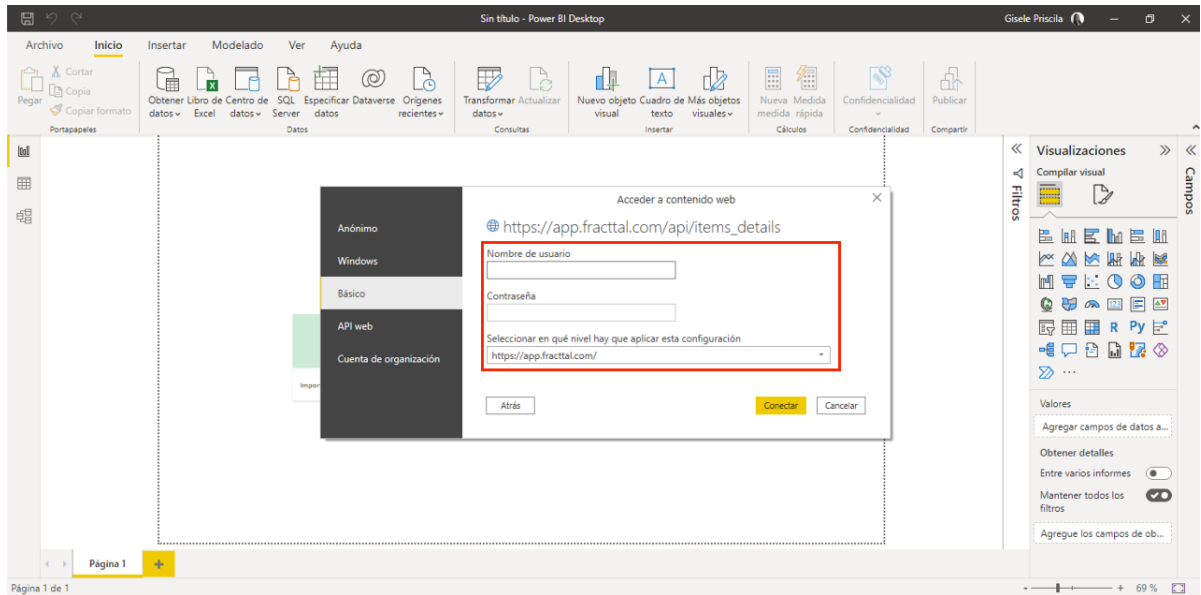
1. Accessing Power BI Desktop > clicking on Get Data > Web



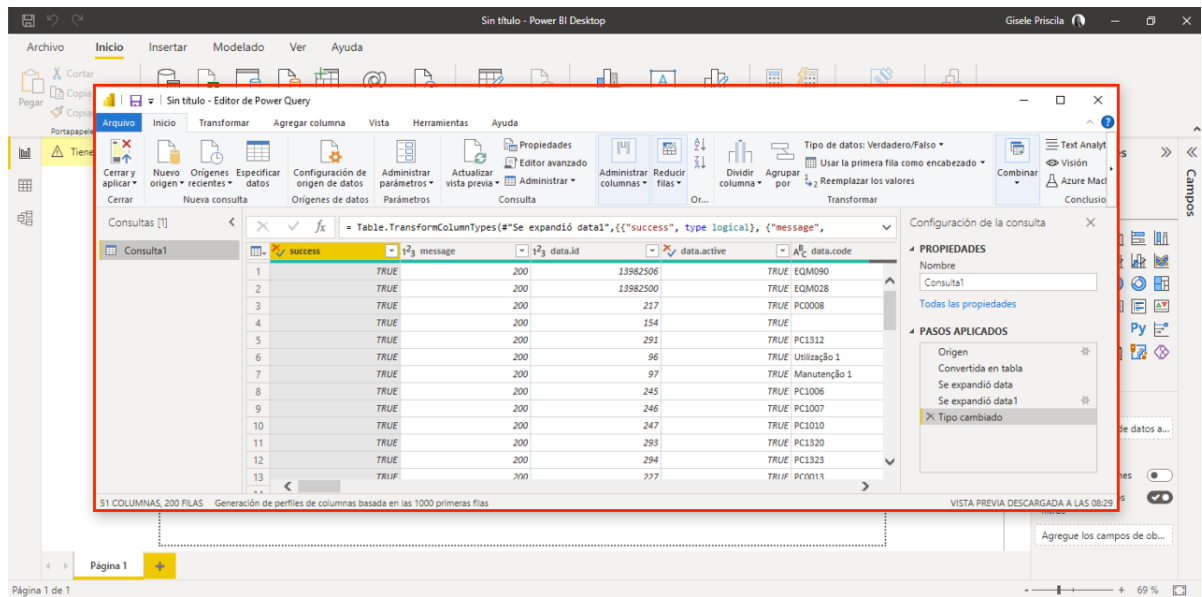
2. A window will open requesting the "FROM WEB" information; we must enter the URL of the API query we are going to perform and click 'accept'.



3. Then, go to "**BASIC**", in the 'username' field enter the Fracttal "**API Key**" data, in the password field enter the Fracttal "**API Secret**" data, select the API you want to query, and finally select "**Connect**".



4. Once the previous window loads, it shows the details of the query performed.



NOTE: For more information about API connections, click [here](#).