

# How to create and update meter readings in Fracttal HUB?

[help.fracttal.com/hc/en-us/articles/37555428587917-How-to-create-and-update-meter-readings-in-Fracttal-HUB](https://help.fracttal.com/hc/en-us/articles/37555428587917-How-to-create-and-update-meter-readings-in-Fracttal-HUB)

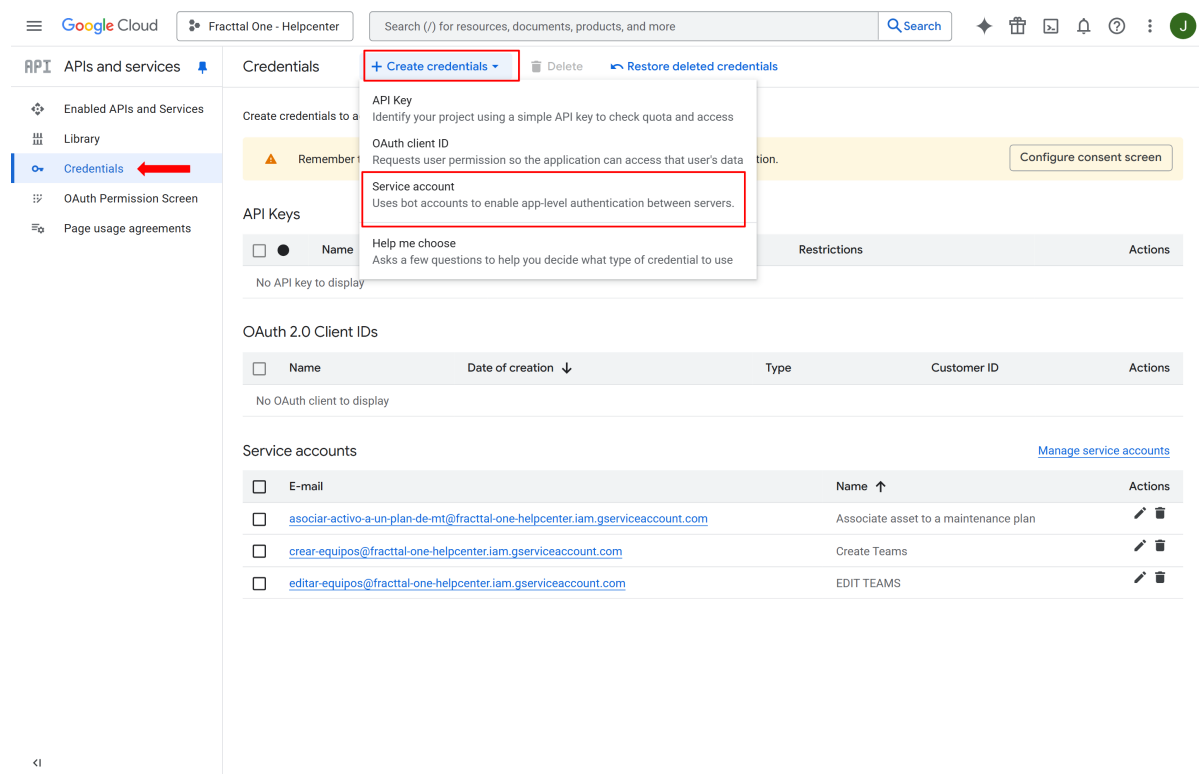
With the automation option in **Fracttal Hub**, it is possible to efficiently manage the creation and updating of meters without manual intervention, especially in high data volume contexts. This functionality allows users to streamline operational processes and minimize human errors in handling meter readings.

Below, you will find a step-by-step guide on how to set up this functionality within the Fracttal Hub platform.

## Step 1: Access the Google Cloud Console

Log in to Google Cloud Console.

- Go to the **API and Services > Credentials** section.
- Click on **Create Credentials > Service Account**.



- Name the service account as "create\_meters" and follow the process until completion.

Google Cloud Fractal One - Helpcenter Search (/) for resources, documents, products, and more Search

IAM and administrator / Service accounts / Create service account

1 Create service account

Service account name  
Display name for this service account

Service Account ID \*  
Email address: <id>@fractal-one-helpcenter.iam.gserviceaccount.com

Service Account Description  
Describe how the service account will be used

Create and continue

2 Permissions(optional)

3 Main with access(optional)

Conclude Cancel

## Step 2: Generate the JSON key

1. Once the service account is created, select it from the list.

Google Cloud Fractal One - Helpcenter

API APIs e serviços

Credentials + Create credentials Delete

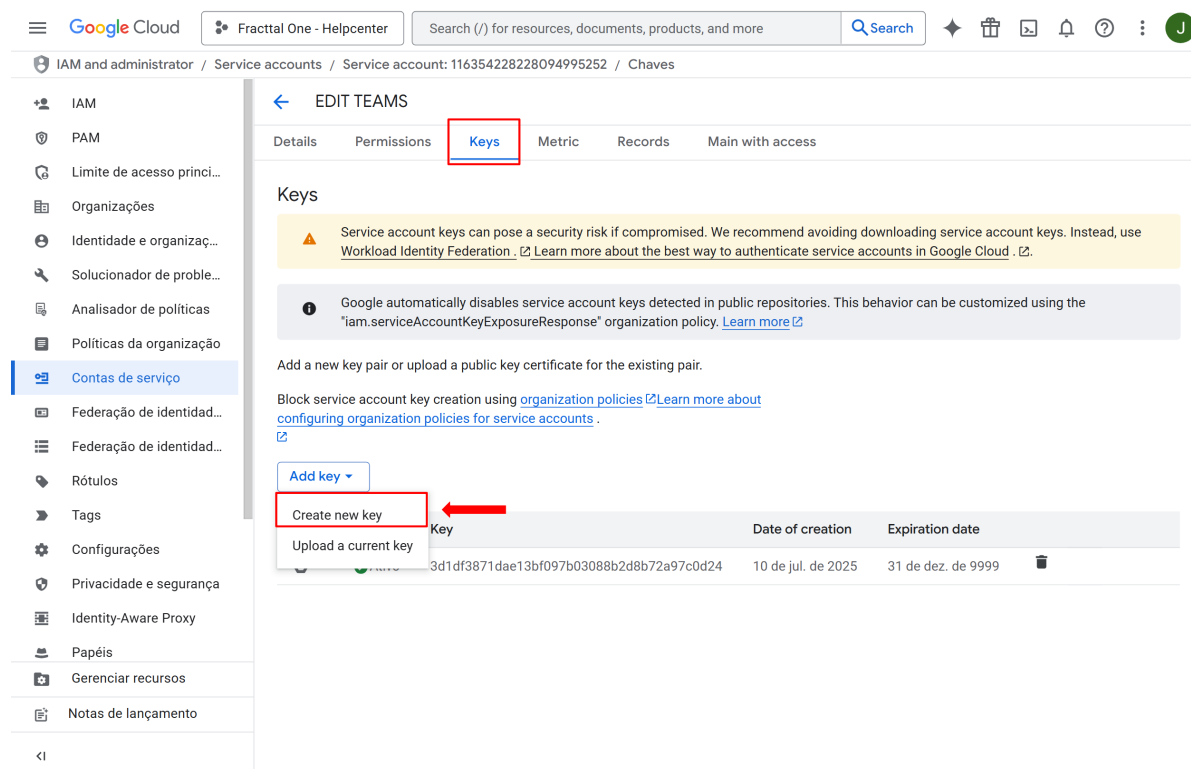
OAuth 2.0 Client IDs

Name	Date of creation	Type	Customer ID	Actions
No OAuth client to display				

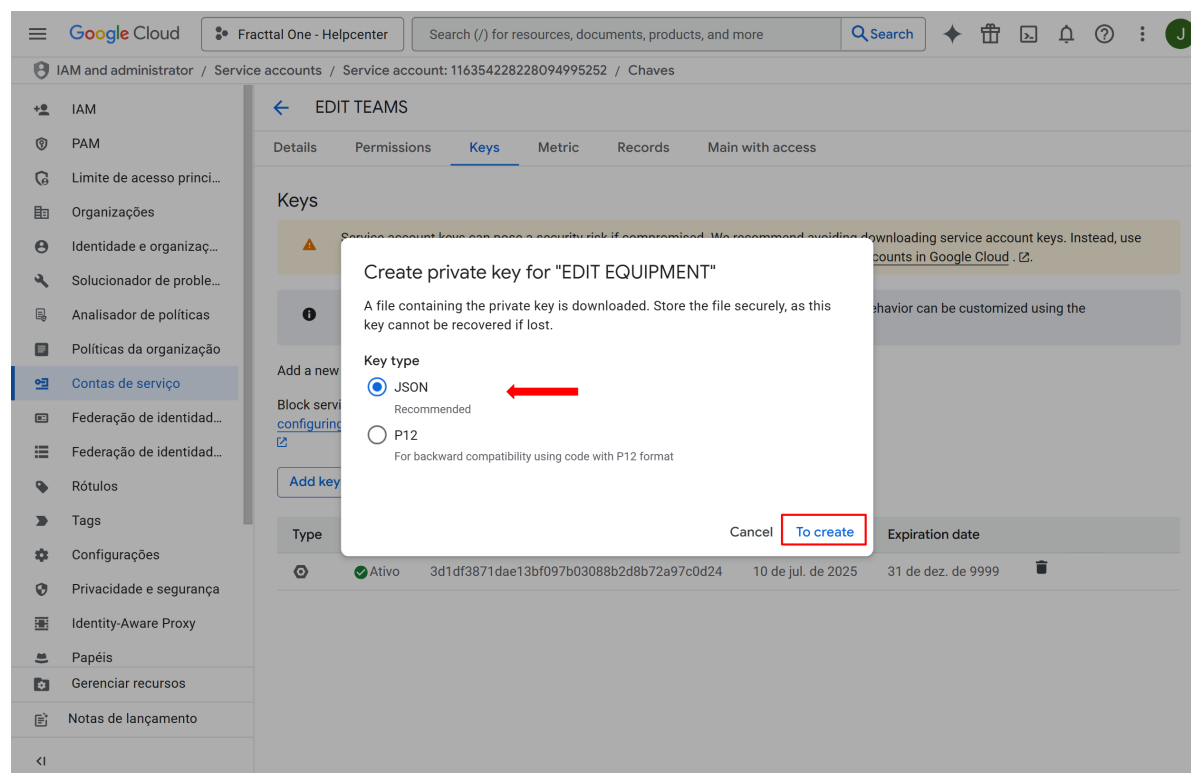
Service accounts Manage service accounts

E-mail	Name	Actions
asociar-activo-a-un-plan-de-mt@fractal-one-helpcenter.iam.gserviceaccount.com	Associate asset to a maintenance plan	
crear-equipos@fractal-one-helpcenter.iam.gserviceaccount.com	Create Teams	
crear-medidores@fractal-one-helpcenter.iam.gserviceaccount.com	create meters	
editar-equipos@fractal-one-helpcenter.iam.gserviceaccount.com	EDIT TEAMS	

## 2. Go to the **Keys** section. Click on **Add Key > Create New Key**.



## 3. Select the **JSON** format.



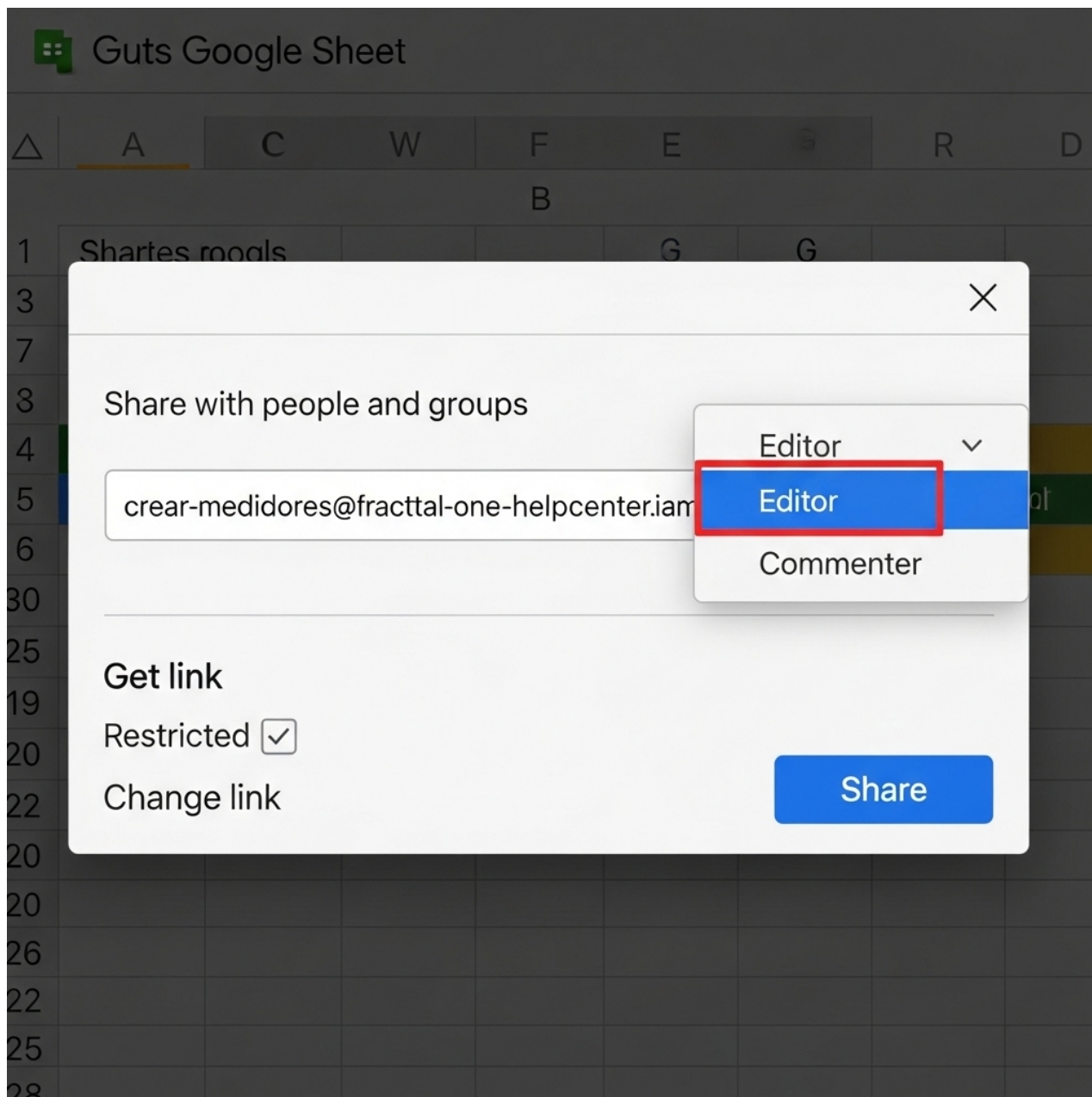
## 4. Save the generated file in a secure location; this file will be necessary to configure the integration in Fracttal Hub.

## Step 3: Prepare the spreadsheet (Google Sheets)

Now, we will prepare the spreadsheet that will serve as the data source for the creation of meters.

description	item_code	unit_code	is_counter
Electric Transformer	ABC123-HC-FC	KM	TRUE

1. Create a new spreadsheet in Google Sheets.
2. Give it a descriptive name, such as CREATE METER.
3. In the first row, define the column headers. These must match the parameters required by the Fractal API. For this example, we will use the following mandatory fields and one optional:
  - **Column A:** description (Description of the meter, e.g.: "KM Meter").
  - **Column B:** item\_code (Code of the asset to which the meter will be associated, e.g.: "HUB-004").
  - **Column C:** unit\_code (Code of the meter's unit, e.g.: "KM". This code must exist previously in Settings > Auxiliary Catalogs > Unit).
  - **Column D:** is\_counter (Optional, but recommended. Indicates if the meter is a counter. Write TRUE if it is, or FALSE if not).
4. Fill the rows with the information of the meters you wish to create.
5. **Share the spreadsheet:** This is a crucial step.
  - Copy the email of the service account you created in Step 1 (you will find it inside the .json file in the client\_email field).
  - Click the **Share** button on your spreadsheet.
  - Paste the email of the service account and assign it **Editor** permissions.

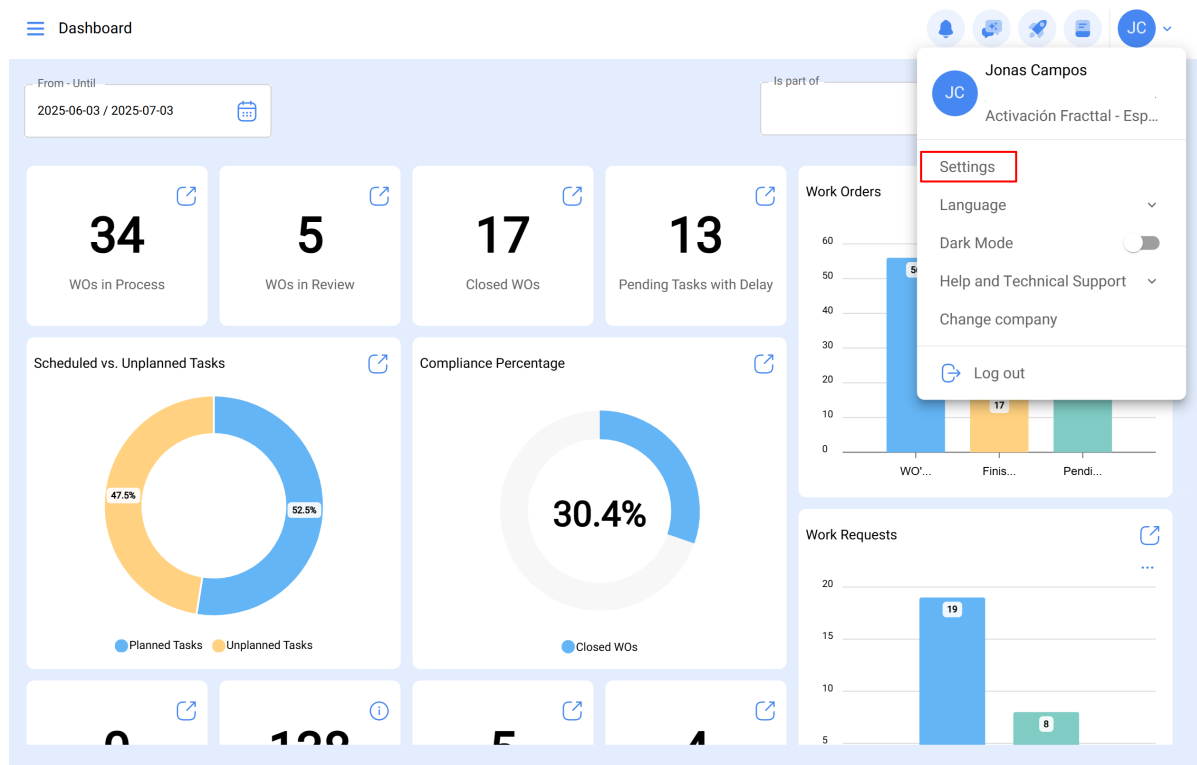


Click on **Send**.

## Step 4: Create the connection in Fractal One

Now we will configure the connection within Fractal so that it can use the service account credentials.

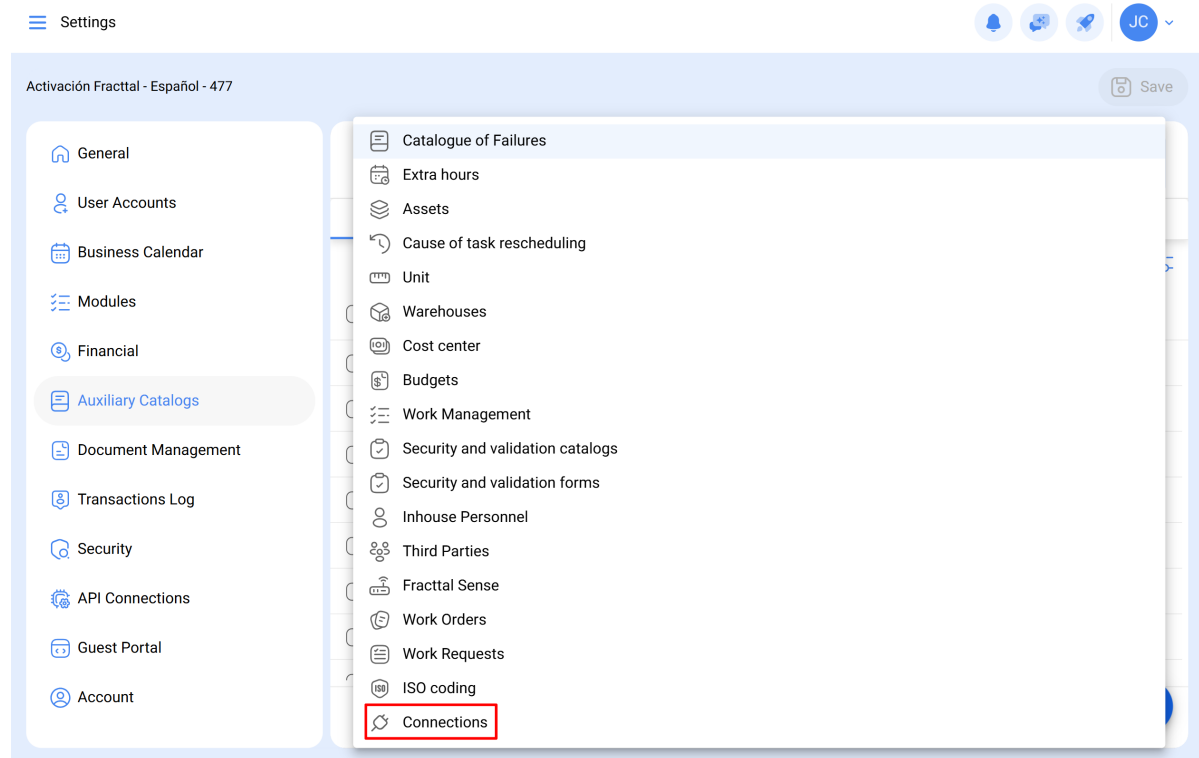
1. In Fracttal, navigate to **Settings > Auxiliary Catalogs > Connections**.



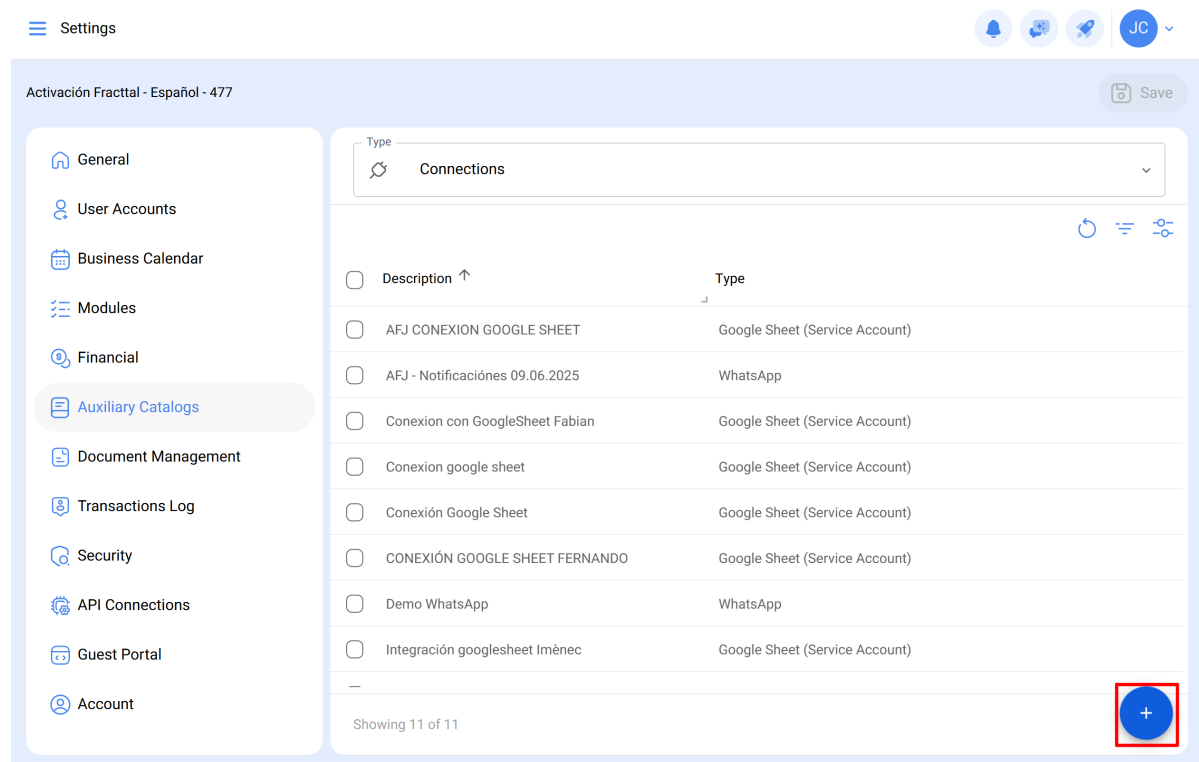
The settings page is titled 'Activación Fracttal - Español - 477'. The left sidebar contains a list of settings categories, with 'Auxiliary Catalogs' highlighted with a red box. The main content area shows the configuration for this catalog:

- General:** Includes fields for Code (RFC10829120), Name (Activación Fracttal - Español - 477), Email (contacto@fracttal.com), Currency (Chilean Peso), and Thousands separator (.) The character used is a p.
- Address:** Includes fields for Address (Calle de San José Artesano, 12), City (Bogota), State (Cundinamarca), Country (Colombia), and Zip code (28108).
- Map:** A map showing the location of the catalog. The map includes a search bar, a red pin, and a label 'Inacap Apoquindo'. The map is powered by Google Maps.

At the bottom of the page, there are fields for Time zones UTC, Latitude, and Longitude.



2. Click on the + icon to add a new connection.



3. Fill in the following fields:

The screenshot shows the 'Settings' interface for 'Activación Fractal - Español - 477'. The left sidebar contains a list of settings categories: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (selected), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main panel displays the 'Connections' section, which includes a table with columns for 'Type' and 'Description'. The table lists 11 connections, including 'AFJ CONEXION GOOGLE SHEET', 'AFJ - Notificaciones 09.06.2025', 'Conexion con GoogleSheet Fabian', 'Conexion google sheet', 'Conexión Google Sheet', 'CONEXIÓN GOOGLE SHEET FERNANDO', 'Demo WhatsApp', and 'Integración googlesheet Imènc'. To the right of the table, there are two input fields: 'Type' and 'Description', both with red borders and error messages 'Type can't be blank' and 'Description can't be blank' respectively. A blue checkmark icon is visible in the top right corner of the settings panel.

- **Type:** Select **Google Sheet (Service Account)**.

- **Description:** Assign a name to the connection:

4. Open the downloaded **.json** file and copy/paste the content of the following fields into their respective places in the Fractal form:

- **private\_key**
- **client\_email**
- **client\_id**
- **client\_x509\_cert\_url**

5. Click the ✓ icon to save and then click **Save**.



Settings

Activación Fractal - Español - 477

General

User Accounts

Business Calendar

Modules

Financial

Auxiliary Catalogs

Document Management

Transactions Log

Security

API Connections

Guest Portal

Account

Connections

Description ↑	Type
Conexión Google Sheet	Google Sheet (Service Account)
CONEXIÓN GOOGLE SHEET FERNANDO	Google Sheet (Service Account)
Crear medidor	Google Sheet (Service Account)
CREAR MEDIDOR - 0725	Google Sheet (Service Account)
Demo WhatsApp	WhatsApp
EDITAR EQUIPO	Google Sheet (Service Account)
Integración googlesheet Imènc	Google Sheet (Service Account)
Projeto LCS	Google Sheet (Service Account)
proyectox	Google Sheet (Service Account)
webnar 2024 v.1	Google Sheet (Service Account)
whatsapp jonas	WhatsApp

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Type

Google Sheet (Service Account)

Description

CREAR MEDIDOR - 0725

Type

service\_account

project\_id \*

@fractal.com

private\_key\_id \*

\*\*\*\*\*

private\_key \*

\*\*\*\*\*

client\_email \*

crear-medidores@fractal-one-helpcenter.iam.gserviceaccount

client\_id \*

10948539799581941586

client\_x509\_cert\_url \*

https://www.googleapis.com/robot/v1/metadata/x509/crear

auth\_uri

https://accounts.google.com/o/oauth2/auth

token\_uri

## Step 5: Configure the flow in Fractal Hub

With the connection ready, the last step is to create the automation flow.

1. Navigate to the **Fractal Hub** module.

fractalone

Version: 5.1.03

Start

Catalogs

Warehouses

Work Management

Monitoring

Dispatcher

Events

Fractal Hub

Business Intelligence

Cloud Disk

Requests

Online help

17

Closed WOs

13

Pending Tasks with Delay

30.4%

Compliance Percentage

Closed WOs

Work Orders

WO...	56
Finis...	17
Pendi...	39

Work Requests

	19
	8

2. Click the **+** icon to create a new flow.

Fractal Hub

Search...

Refresh Filter Settings

<input type="checkbox"/>	Enabled	Description	Last Date	Trigger
<input type="checkbox"/>	Yes	Notificación de nuevas órdenes de servicio de Whatsapp (P...	2025-07-02 12:54	Event
<input type="checkbox"/>	Yes	actualización de horometro	2024-11-22 18:15	Schedule
<input type="checkbox"/>	Yes	AFJ. 09.06.2025. Conex. Wpp	2025-06-09 09:57	Event
<input type="checkbox"/>	Yes	Lecturas fuera de Rango (Rangel)	2023-03-22 17:51	Event
<input type="checkbox"/> ▶	Yes	Consulta subtaeas Fractal Fabian	2024-12-18 20:26	Manual
<input type="checkbox"/> ▶	Yes	Projeo LCS 1212	2024-12-12 18:12	Manual
<input type="checkbox"/>	Yes	Lecturas fuera de rango	2023-03-22 17:51	Event
<input type="checkbox"/> ▶	Yes	webnar 2024	2024-12-17 23:06	Manual
<input type="checkbox"/>	Yes	Notificación de nuevas órdenes de servicio de Whatsapp (E...	2025-05-23 22:20	Event
<input type="checkbox"/>	No	Comunicación Fractal One	2024-09-05 21:53	Event
<input type="checkbox"/> ▶	Yes	BODEGAS FAC - MEDIDORES	2025-01-20 16:56	Manual

Showing 14 of 14

**+**

3. Add a **Description** for the flow:

Fractal Hub

Notifications AI JC

← Save

Enabled ☒

**Required Information**

- Source configuration cannot be empty
- Target connection settings cannot be empty
- Mapping to destination configuration cannot be empty

Flow

Execution history

Event queue

**Flow settings**

Description

CREAR MEDIDORES

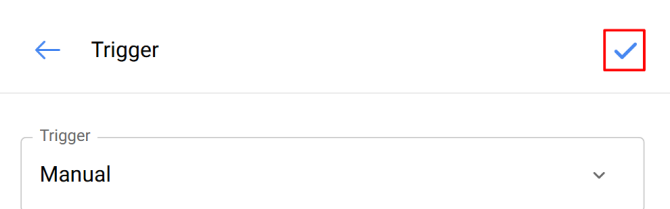
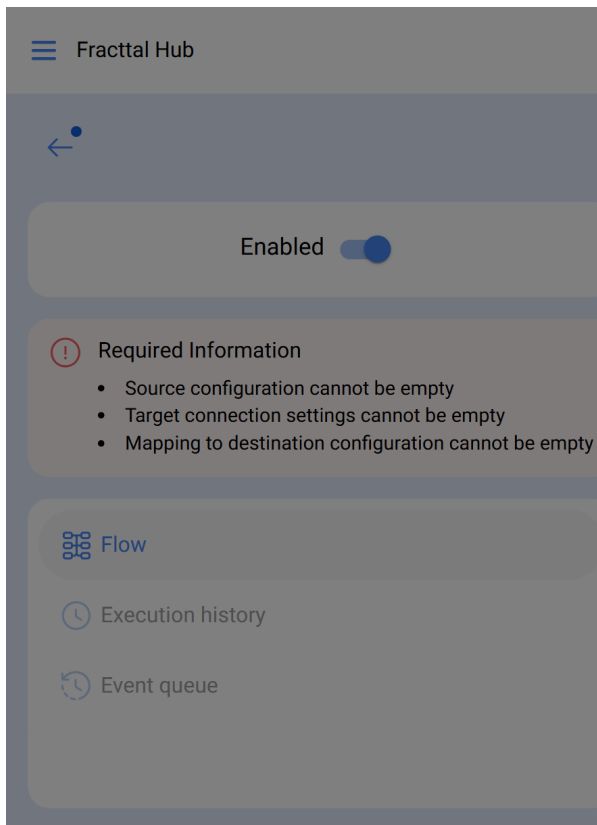
Trigger

Source

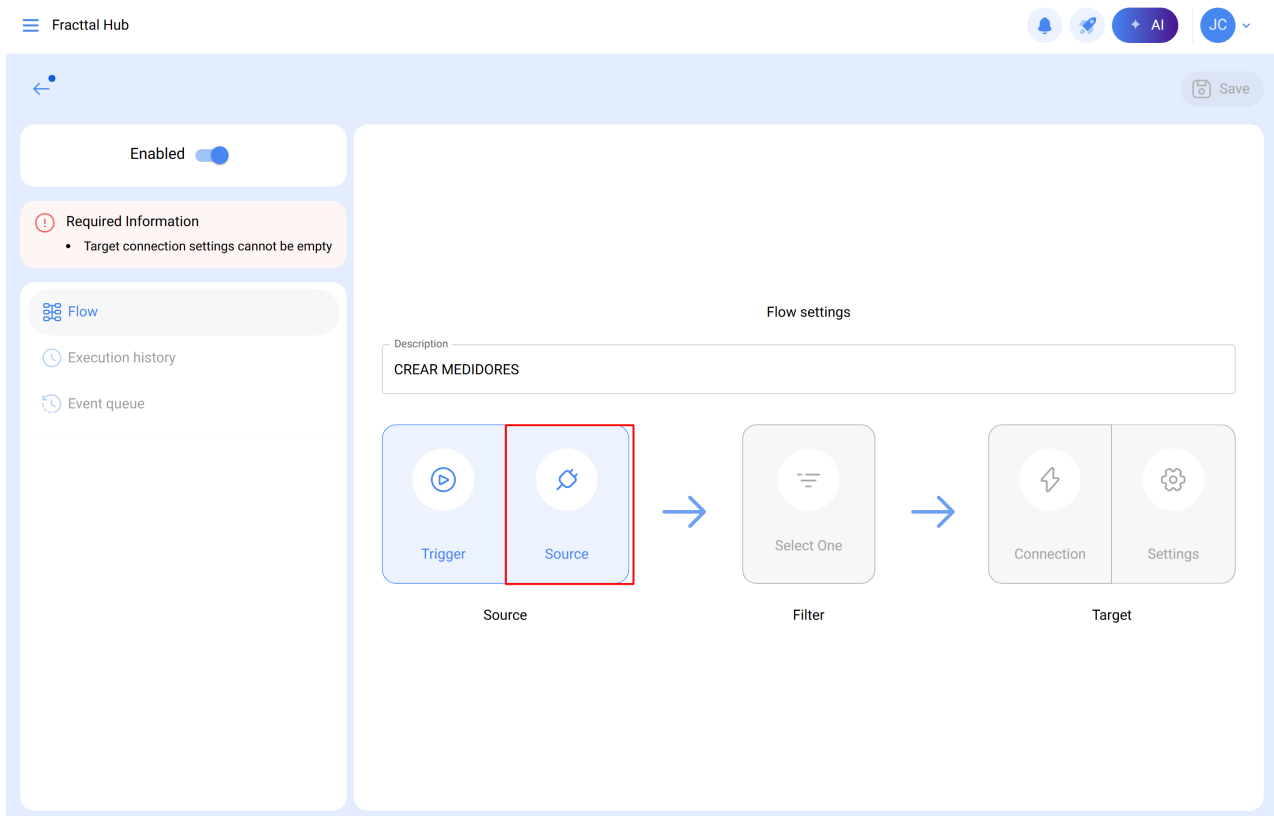
Source

### Trigger Configuration:

Click on **Trigger** and select the type **Manual**. This allows the flow to be executed whenever desired.



## Source Configuration:



- Click on **Source**.
- **Module**: Select **GoogleSheet**.
- **Connection**: Select the connection created in the previous step.

- **Action:** Select **Read**.
- **spreadsheet\_id:** Copy the ID of your spreadsheet (you can find it in the URL, between **/d/** and **/edit/**).
- **sheet:** Write **0** to read the first tab.
- **Fields:** Add the names of the columns:

Fractal Hub

← Source

Enabled ☒

**Required Information**

- Source configuration cannot be empty
- Target connection settings cannot be empty
- Mapping to destination configuration cannot be empty

**Source Configuration**

Module: GoogleSheet

Connection: CREAR MEDIDOR - 0725

Action: Read

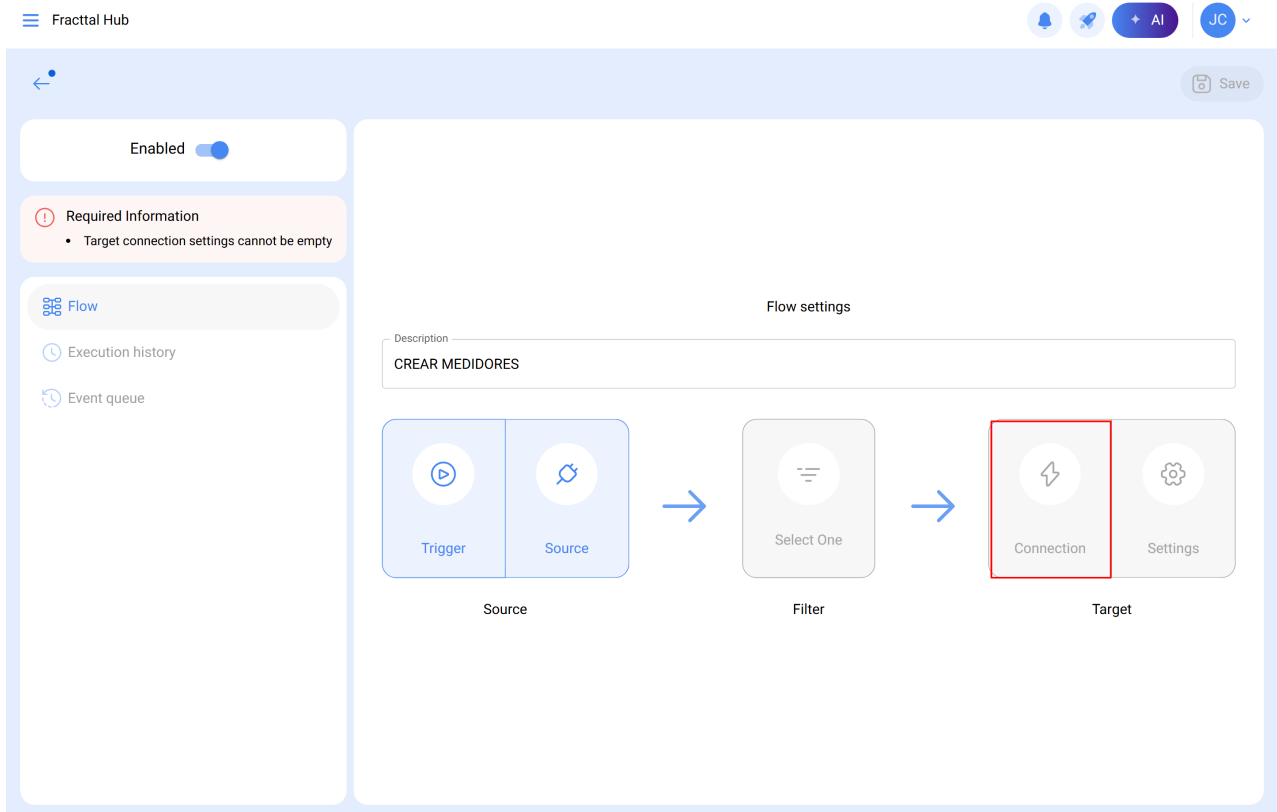
spreadsheet\_id: 338689D5-4FC6-4641-9FB3-715768F4DCAC

sheet: 0

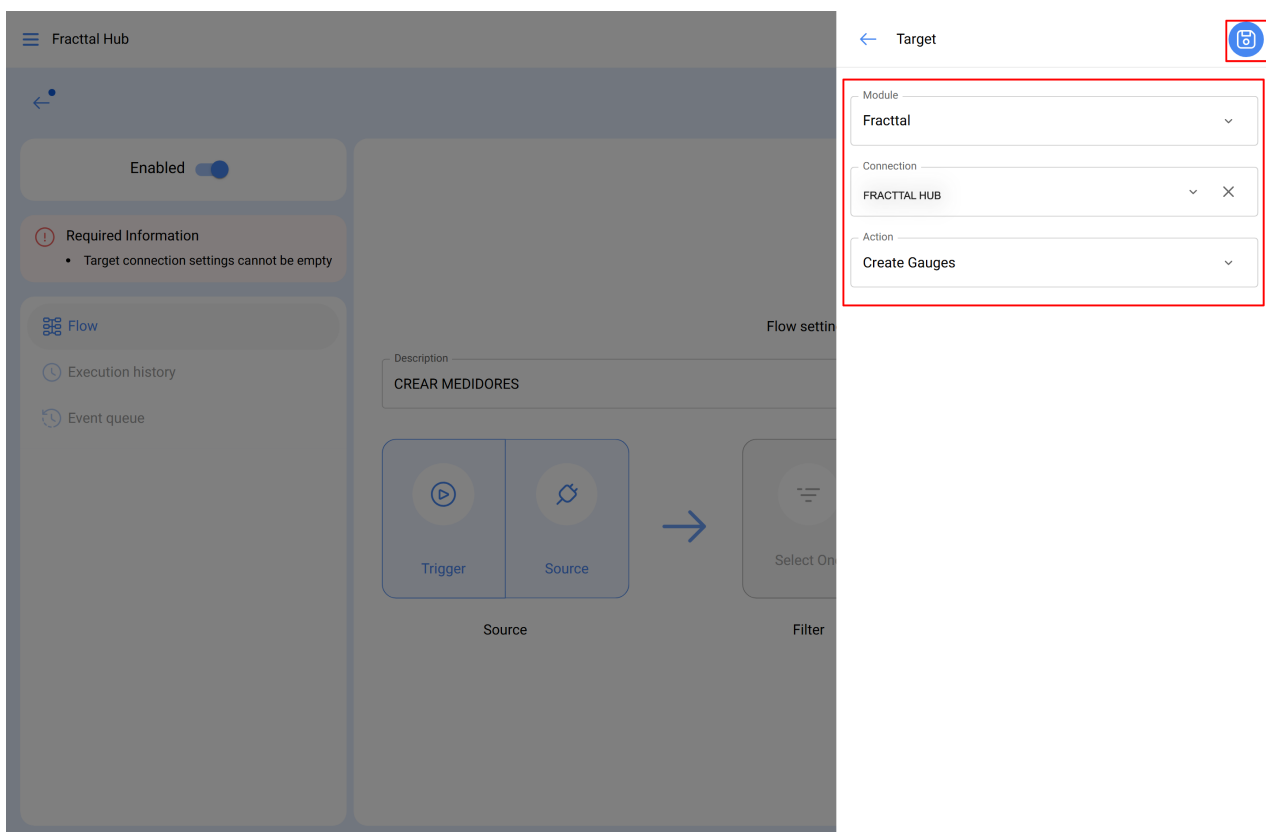
**Fields**

Name	Type
id	Text

## Destination Configuration:



- Click on **Connection** in the destination section.
- **Module:** Select **Fractal**.
- **Connection:** Choose **FRACTTAL HUB**.
- **Action:** Select **Create Meters**.



## Field Settings (mapping):

The screenshot shows the Fractal Hub interface for configuring a flow. The top bar includes the Fractal Hub logo, a notification bell, a rocket icon, an 'AI' button, and a user profile 'JC'. The main area is titled 'Flow settings' and contains a description field with the text 'CREAR MEDIDORES'. Below the description is a flow diagram with three stages: 'Source' (Trigger and Source), 'Filter' (Select One), and 'Target' (Connection and Settings). The 'Settings' stage is highlighted with a red box.

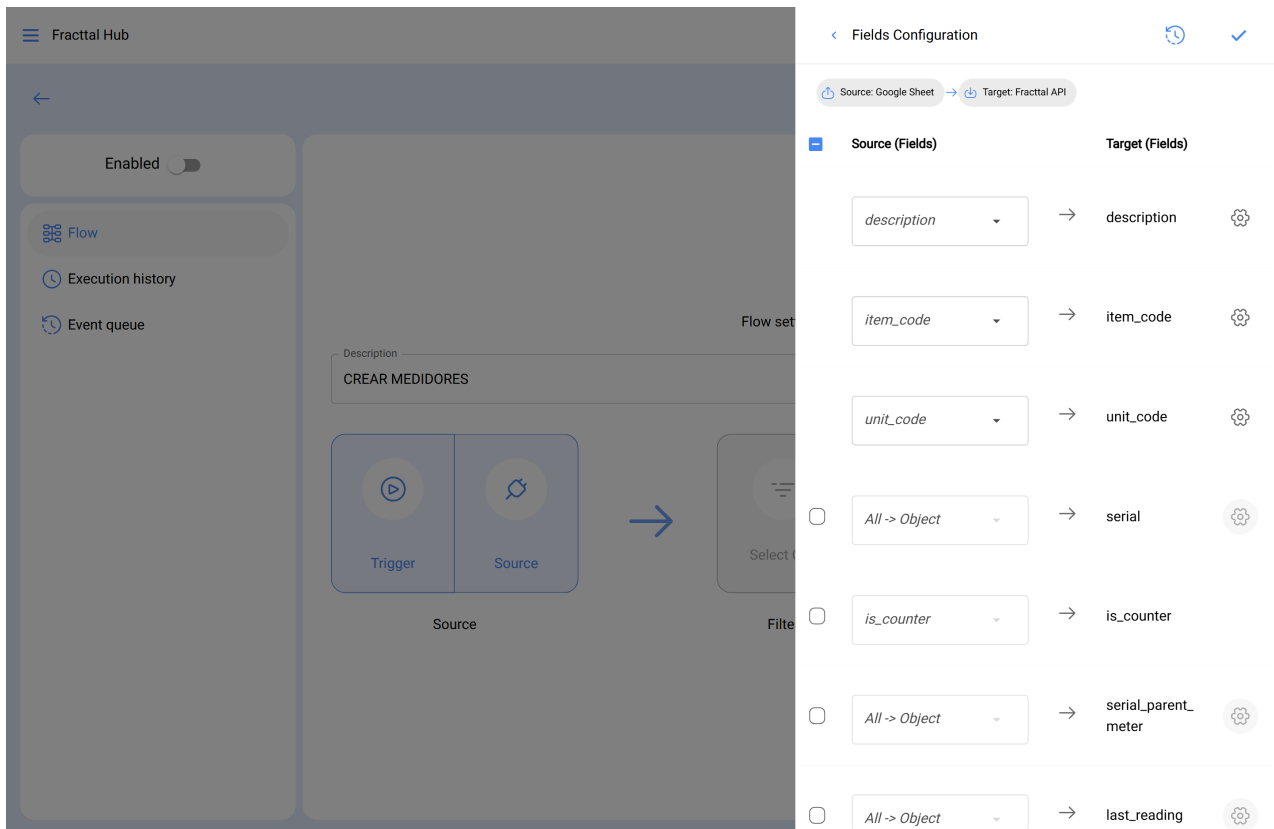
- Click on Settings in the destination section.
- Map the fields from the sheet (Source) with those of the system (Destination), ensuring they match:

**description** ← **description**

**item\_code** ← **item\_code**

**unit code** ← **unit\_code**

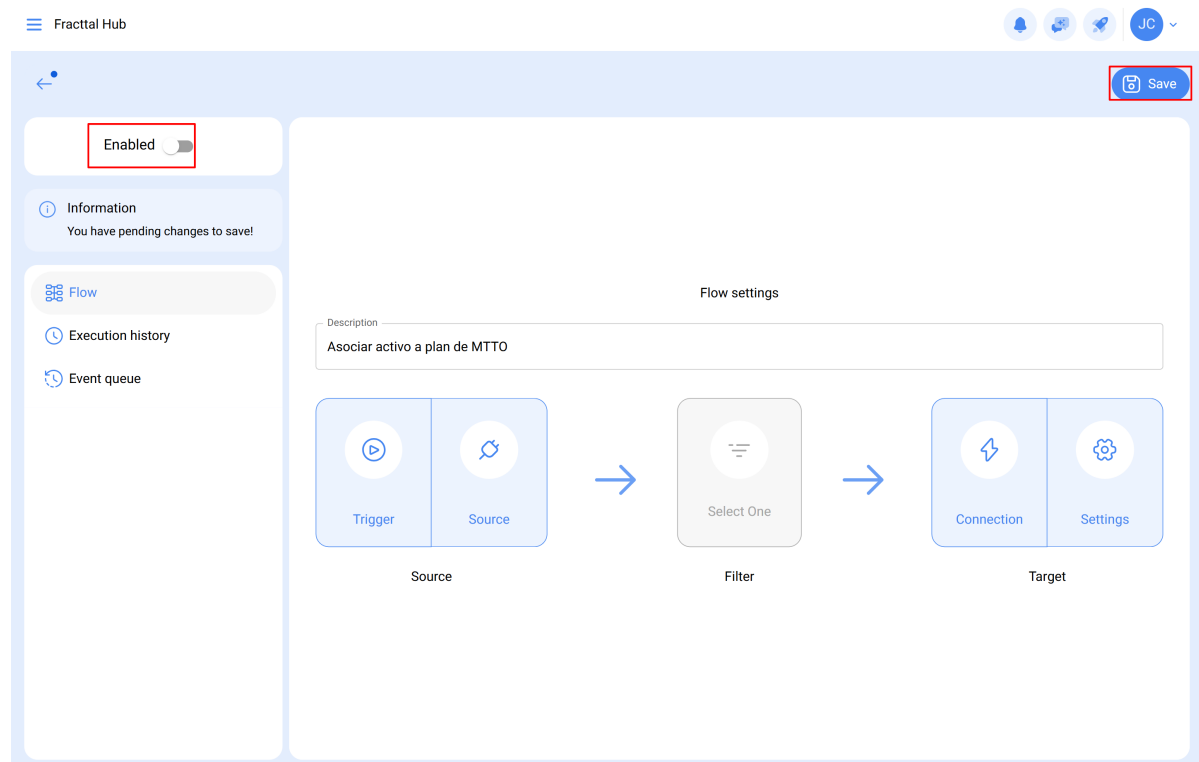
**is\_counter** ← **is\_counter**



Click on **Save** to save the flow configuration.

## Step 7: Run and verify the flow

1. Turn on the **Enabled** switch.
2. Click again on **Save**.



3. Click the **Execute** button to start the process.

The screenshot shows the Fractal Hub interface. In the top right corner, there is a navigation bar with a bell icon, a rocket icon, an 'AI' button, and a user profile 'JC'. Below this, there is a 'Save' button and an 'Execute' button, which is highlighted with a red rectangle. On the left side, there is a sidebar with a toggle switch labeled 'Enabled' and three menu items: 'Flow', 'Execution history', and 'Event queue'. The main area is titled 'Flow settings' and contains a description field with the text 'CREAR MEDIDORES'. Below the description, there is a flow diagram with three stages: 'Source' (containing 'Trigger' and 'Source' buttons), 'Filter' (containing a 'Select One' button), and 'Target' (containing 'Connection' and 'Settings' buttons). Arrows indicate the flow from Source to Filter to Target.

You can monitor the progress in the **Event Queue** and **Execution History** tabs. A successful process will show "Process Completed" and mark the Extraction, Transformation, and Loading stages as complete.

The screenshot shows the Fractal Hub interface. In the top right corner, there is a navigation bar with a bell icon, a rocket icon, an 'AI' button, and a user profile 'JC'. Below this, there is a 'Save' button and an 'Execute' button. On the left side, there is a sidebar with a toggle switch labeled 'Enabled' and three menu items: 'Flow', 'Execution history', and 'Event queue'. The 'Execution history' and 'Event queue' items are highlighted with a red rectangle. The main area is titled 'Flow settings' and contains a description field with the text 'Asociar activo a plan de MTTO'. Below the description, there is a flow diagram with three stages: 'Source' (containing 'Trigger' and 'Source' buttons), 'Filter' (containing a 'Select One' button), and 'Target' (containing 'Connection' and 'Settings' buttons). Arrows indicate the flow from Source to Filter to Target.



## Related articles

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[How to create a new meter?](#)