

How to link an asset to a maintenance plan from Fracttal Hub?

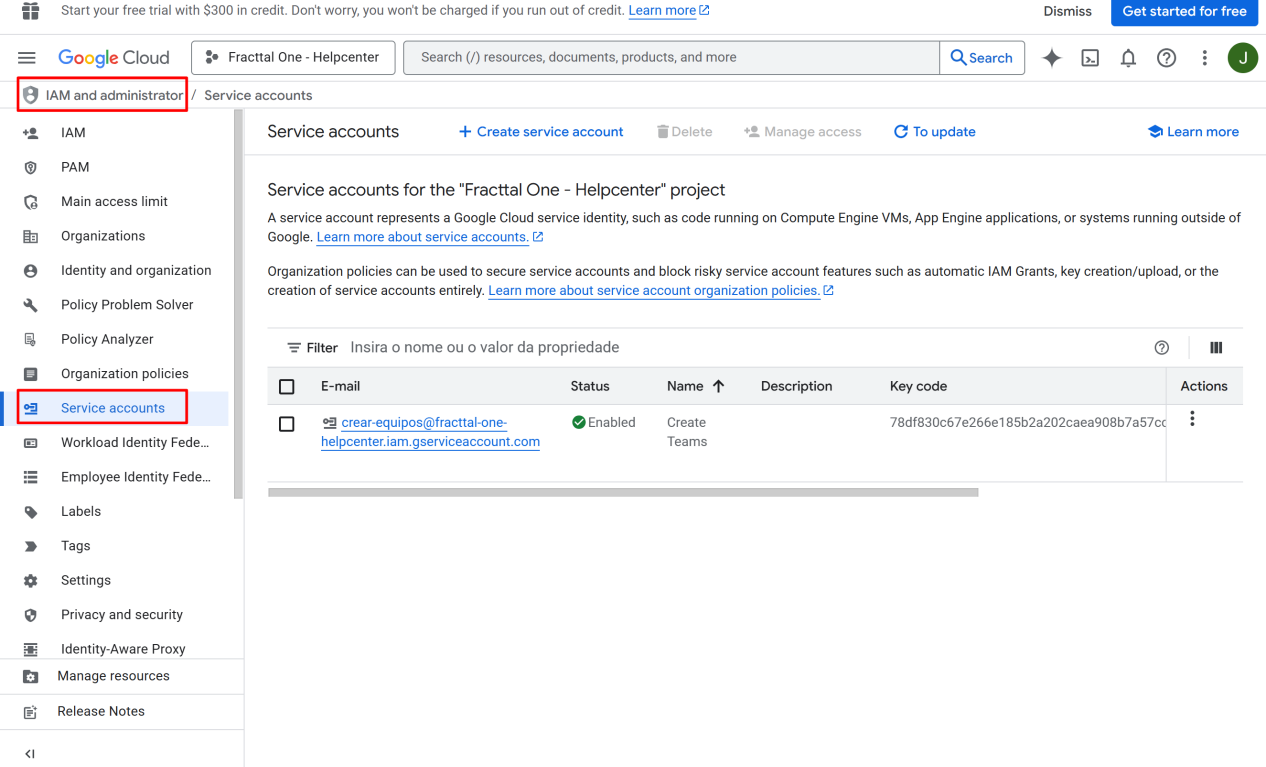
 help.fracttal.com/hc/en-us/articles/37555734218893-How-to-link-an-asset-to-a-maintenance-plan-from-Fracttal-Hub

Fracttal Hub allows you to associate assets with maintenance plans in bulk from Google Sheets. For the upload to be valid, the asset must not be linked to another plan, must be a location, equipment, or tool, and the plan cannot include triggers or subtasks with meter readings.

Step 1: Access the Google Cloud Console

Communication between Fracttal and Google Sheets is securely done via a service account.

1. Access the Google Cloud Console.
2. In the navigation menu, go to **IAM & admin > Service accounts**.



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Service accounts for the "Fracttal One - Helpcenter" project

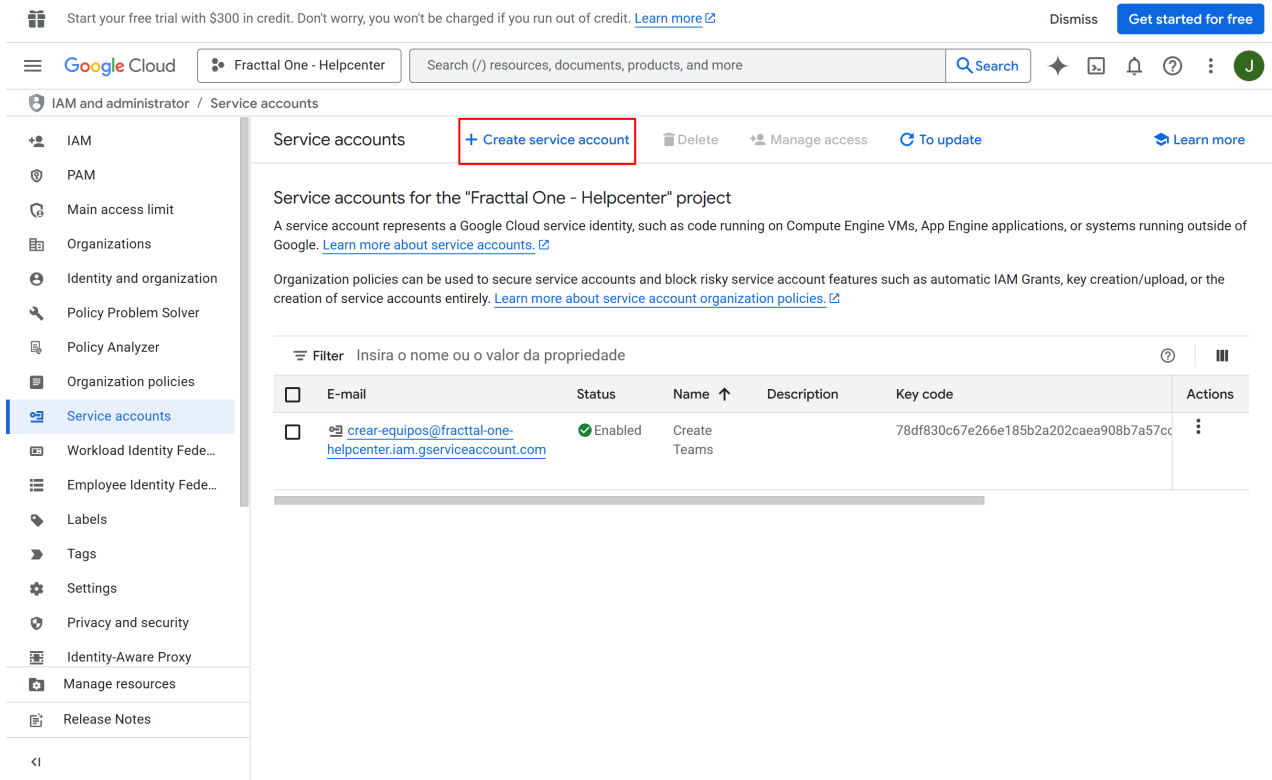
A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine applications, or systems running outside of Google. [Learn more about service accounts.](#)

Organization policies can be used to secure service accounts and block risky service account features such as automatic IAM Grants, key creation/upload, or the creation of service accounts entirely. [Learn more about service account organization policies.](#)

Filter Insira o nome ou o valor da propriedade

☐	E-mail	Status	Name ↑	Description	Key code	Actions
☐	crear-equipos@fracttal-one-helpcenter.iam.gserviceaccount.com	Enabled	Create Teams		78df830c67e266e185b2a202caea908b7a57cc	⋮

3. Click on + CREATE SERVICE ACCOUNT.



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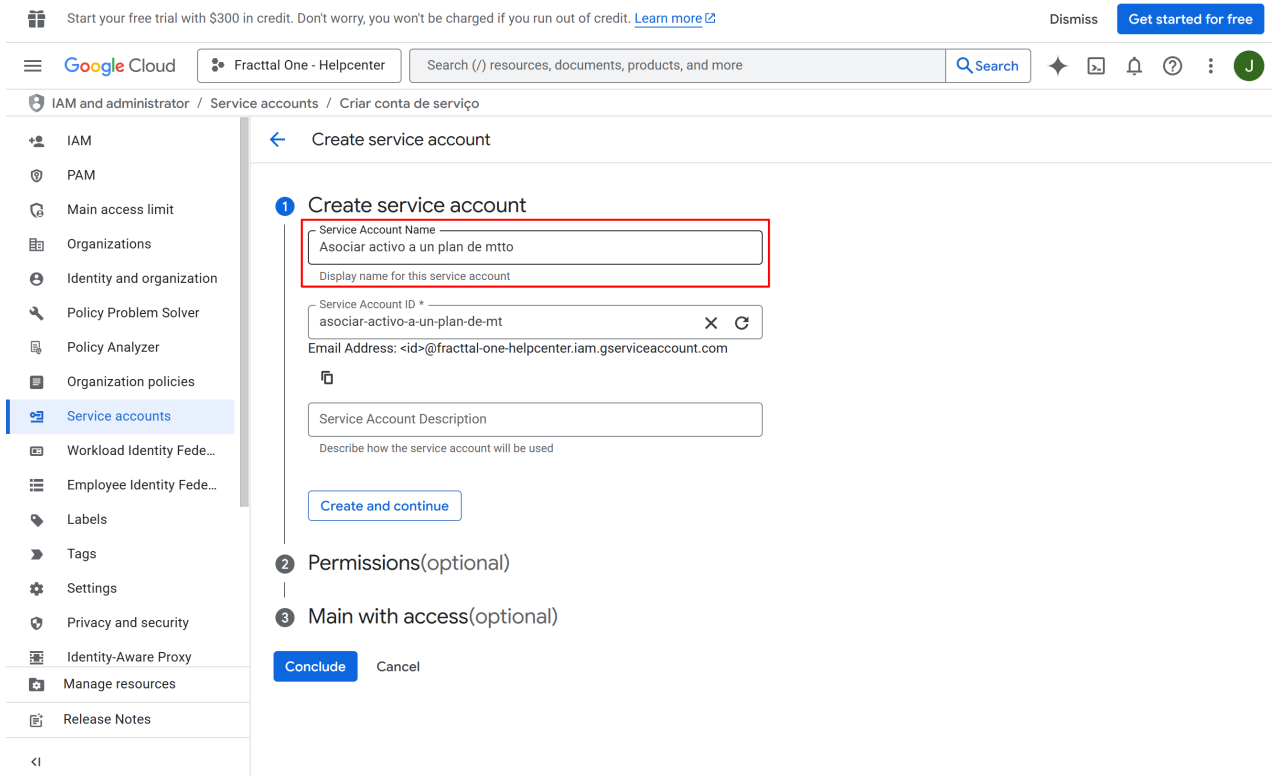
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☐	crear-equipos@fractal-one-helpcenter.iam.gserviceaccount.com	Enabled	Create Teams		78df830c67e266e185b2a202caea908b7a57cc	

4. Assign a name to the service account that is easy to identify, for example: associate-asset-maintenance-plan.



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IAM and administrator / Service accounts / Criar conta de serviço

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

Create and continue

2 Permissions(optional)

3 Main with access(optional)

Conclude Cancel

5. Click on **DONE** to create the account without setting additional permissions.

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IAM and administrator / Service accounts / Criar conta de serviço

IAM
PAM
Main access limit
Organizations
Identity and organization
Policy Problem Solver
Policy Analyzer
Organization policies
Service accounts
Workload Identity Fede...
Employee Identity Fede...
Labels
Tags
Settings
Privacy and security
Identity-Aware Proxy
Manage resources
Release Notes

Create service account

1 Create service account

Service Account Name
Asociar activo a un plan de mtto
Display name for this service account

Service Account ID *
asociar-activo-a-un-plan-de-mt X ↺

Email Address: <id>@fracttal-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 and download the service account key

For Fractal to authenticate, it is necessary to generate a private key for the service account.

1. In the list of service accounts, click on the email of the account you just created.
2. Go to the **KEYS** tab.

3. Click on **ADD KEY** and select **Create new key**.

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IAM and administrator / Service accounts / Conta de serviço: 117194353684544360531 / Chaves

← Associate asset to a maintenance plan

Details Permissions **Keys** Metric Records Main with access

Keys

Service account keys can pose a security risk if compromised. We recommend that you avoid downloading service account keys. Instead, use Workload Identity Federation. [Learn more about the best way to authenticate service accounts in Google Cloud](#).

Google automatically disables service account keys discovered in public repositories. This behavior can be customized using the "iam.serviceAccountKeyExposureResponse" organization policy. [Learn more](#)

Add a new key pair or upload a public key certificate of the existing pair.

Block service account key creation using [organization policies](#). [Learn more about configuring organization policies for service accounts](#)

Add key ▼

Create new key

Upload a current key

Service account created

4. Choose the key type **JSON** and click on **CREATE**.

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Add key ▼

Create a private key to "Associate an asset with a maintenance plan"

A file containing the private key is downloaded. Store the file safely because this key cannot be recovered if lost.

Key type

☒ JSON
Recommended

☐ P12
For backward compatibility using code with P12 format

Cancel **To create**

Service account created

5. A .json file will automatically download to your computer. Save this file in a safe place, as it contains the access credentials.

Now you need to grant permissions to the service account to access and edit your spreadsheet.

1. Open the .json file that you downloaded. Locate and copy the value of the "client_email" field.

```
iu/GJnbMTuPKUpPhPrRy\ntZCxNW/B3Rn5NDb+yCGFnsMhVHUqdolZgnaIpPwfxchw6Y9z13o
lbsETqWNNHo7R\nbZ1oTC05KsPs4eLr421Tf8jHbDR1VsGqZQchWq7XygebVsr4cyEkkLJVAo
GAcI4P\nfw7iK95IuZEQOWNkRo6TS2MuYJ256ifdDiHMa4ZmbMuL43dXNLT011p7SctyiuC2\
nomIw9Kj8j9rebDHDOiLnU5Y7tZggInIXEs9bZsowkxbNz73s8h/QpLY2Oxb7KZFk\n5RA2nI
SubZYqV08TZ9N6alcwqmFxJ4XSkd3PFuECgYEAs5qjpCHYbQdRvj7yq5I5\n7rxFXxDOOv9WI
tW7/AlEkxAGnxDxTFGqXrytrCDsh7rC3s1xKmeKCnRJcto/KZDQ\nNWgnXuk0uOu/GBkZjWgP
7aLR5E7j27IY/gpUEDsTQRxe+bQOayF/RB2ZTcbeEKyO\n5Q9oAXxNsVo6DiSMg8329K4=\n-
-----END PRIVATE KEY-----\n",
  "client_email": "asociar-activo-a-un-plan-de-mt@fracttal-one-
helpcenter.iam.gserviceaccount.com",
  "client_id": "117194353684544360531",
  "auth_uri": "https://accounts.google.com/o/oauth2/auth",
```

2. Open your spreadsheet in Google Sheets.
3. Click on the **Share** button (top right).
4. Paste the service account email in the share field.
5. Make sure to grant **Editor** permission.
6. Click on **Send**.

	B	C	D

Share ×

Add people and groups

asociar-activo-a-un-plan-de-mt@fracttal-one-helpcenter.iam.gserviceaccount.com Editor

Message (optional)

Cancel Send

Step 4: Prepare the Google Sheets spreadsheet

The first row of your sheet must contain the exact headers (parameters) that Fractal expects to receive.

1. Access the Fractal API documentation to check the required parameters.

2. In the first row, insert the following headers:

id_tasks_plan	code_user	item_code	last_date_maintenance
284558	1928182192	HUB-001	2025-03-12T20:00:00-03

3. Fill in the following rows with the corresponding data:

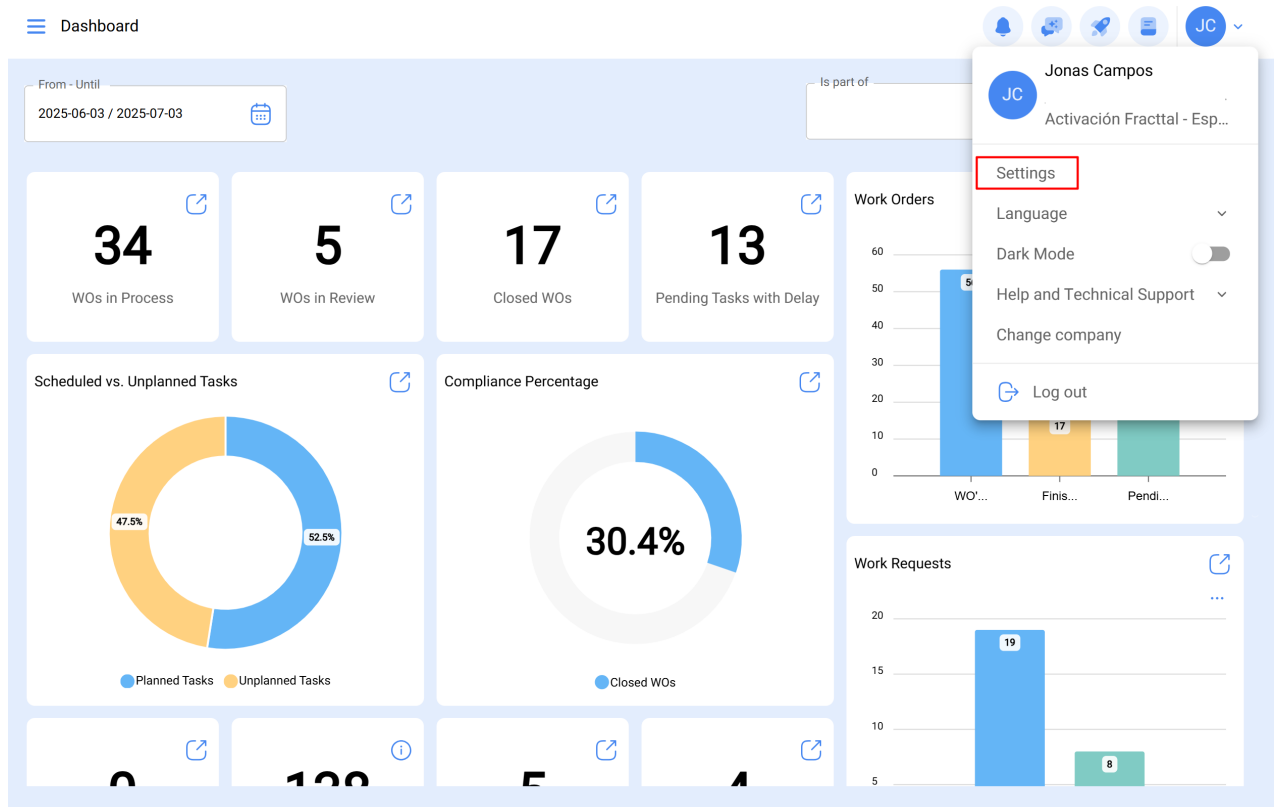
- **id_tasks_plan**: ID of the task plan to which you want to associate the asset. You can find it in Fracttal.
- **code_user**: Code of the user responsible for the transaction. Find it in *Catalogs > Human Resources*.
- **item_code**: Code of the asset (equipment, location, etc.) you want to link. Find it in *Catalogs > Assets*.
- **last_date_maintenance**: Date of the last maintenance.

Important: The date format for `last_date_maintenance` must be YYYY-MM-DDTHH:MM:SS-UTC. Copy the format from the API documentation to avoid errors.

Step 5: Create the connection in Fracttal One

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

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



The settings page is titled "Activación Fractal - Español - 477". The left sidebar lists various settings categories, with "Auxiliary Catalogs" highlighted. The main content area shows the configuration for the "Activación Fractal - Español - 477" catalog.

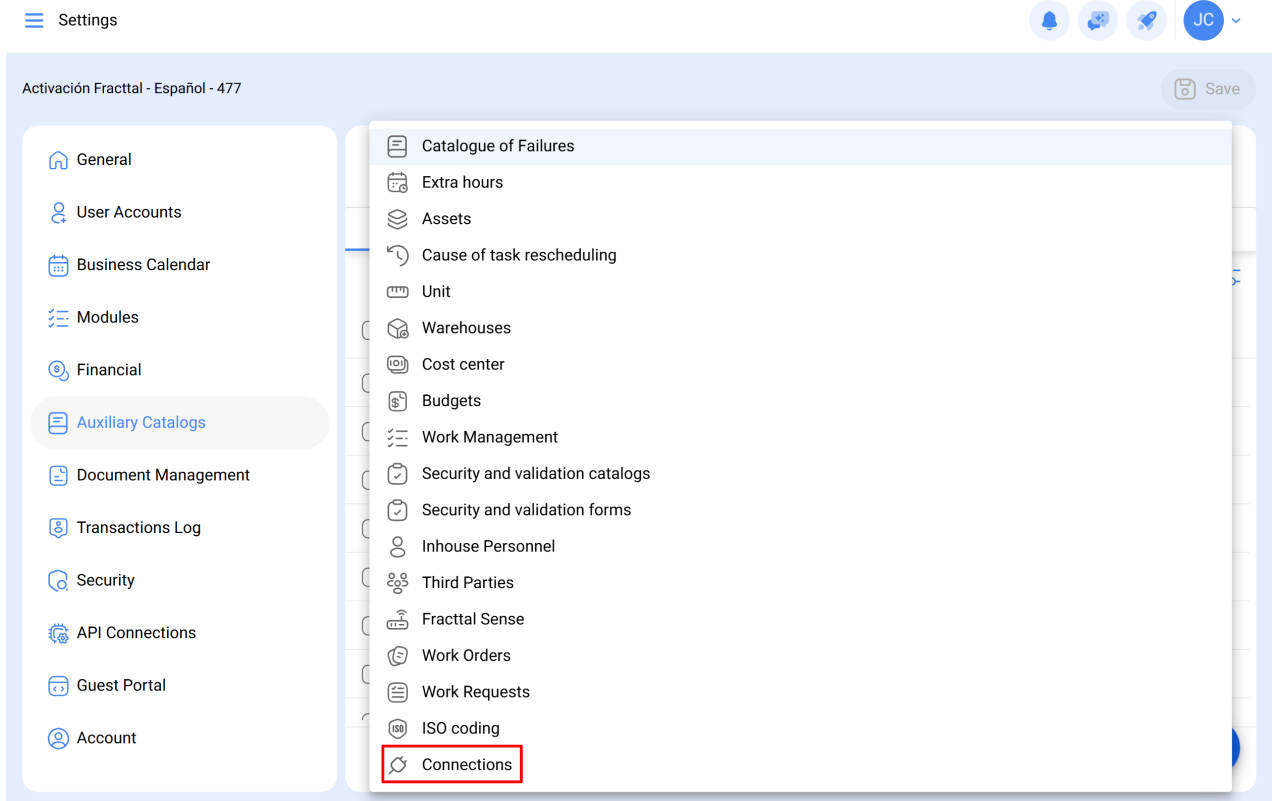
General Information:

- Code: RFC10829120
- Name: Activación Fractal - Español - 477
- Email: contacto@fractal.com
- Currency: Chilean Peso
- Thousands separator: (.) The character used is a p

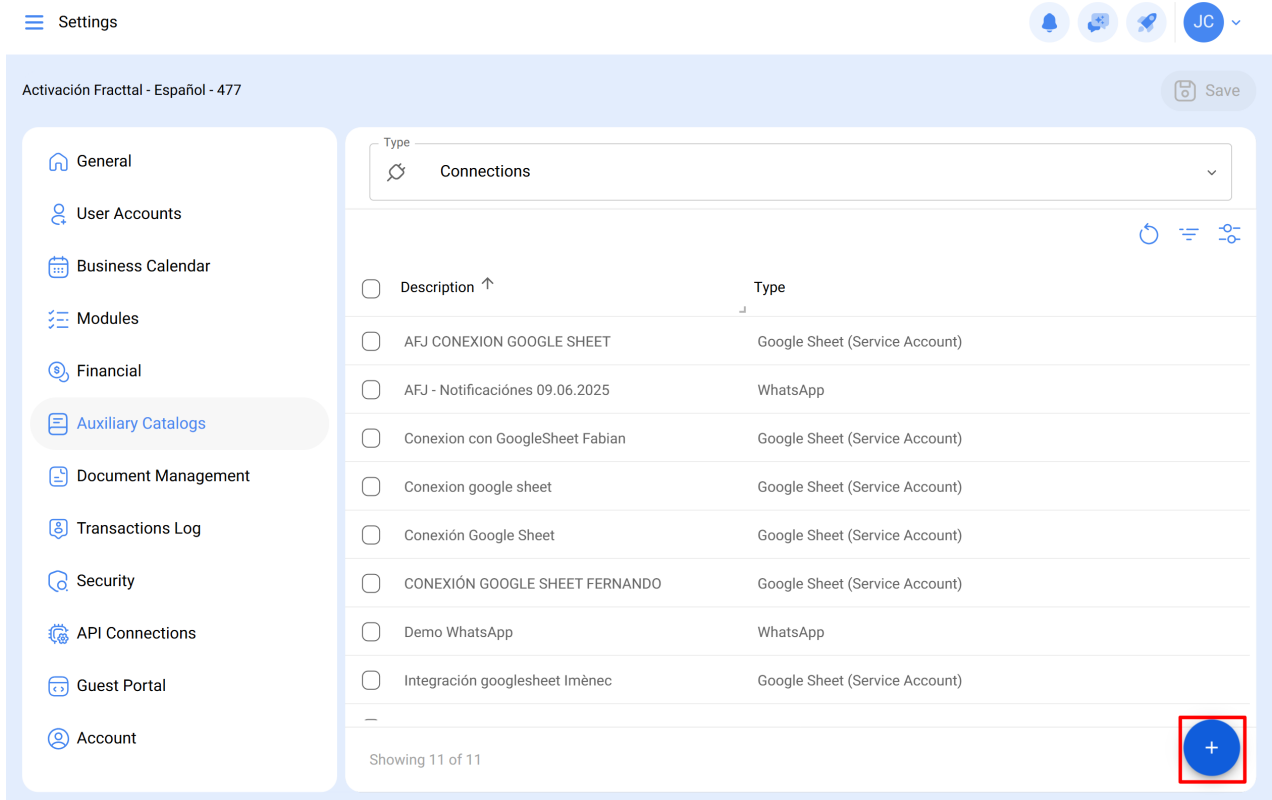
Address:

- Address: Calle de San José Artesano, 12
- City: Bogota
- State: Cundinamarca
- Country: Colombia
- Zip code: 28108

Map: A Google Map showing the location of the catalog. The map includes a search bar, a red pin, and a label "Inacap Apoquindo". The map is titled "Mapa" and "Satélite".



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



3. Fill in the following fields:

The screenshot shows the 'Settings' page for 'Activación Fractal - Español - 477'. The sidebar on the left lists various settings categories: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (highlighted), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main content area is titled 'Connections' and displays a table with 11 rows. The table has columns for 'Type', 'Description', and 'Status'. The first row is a header with a checkbox and a sort arrow. The following rows list various 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 Imènec'. The table is paginated, showing 'Showing 11 of 11'.

Below the screenshot, there are two input fields for the 'Type' and 'Description' columns. The 'Type' field has a dropdown arrow and a red border. The 'Description' field has a red border. Both fields have red error messages below them: 'Type can't be blank' and 'Description can't be blank'.

- **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:

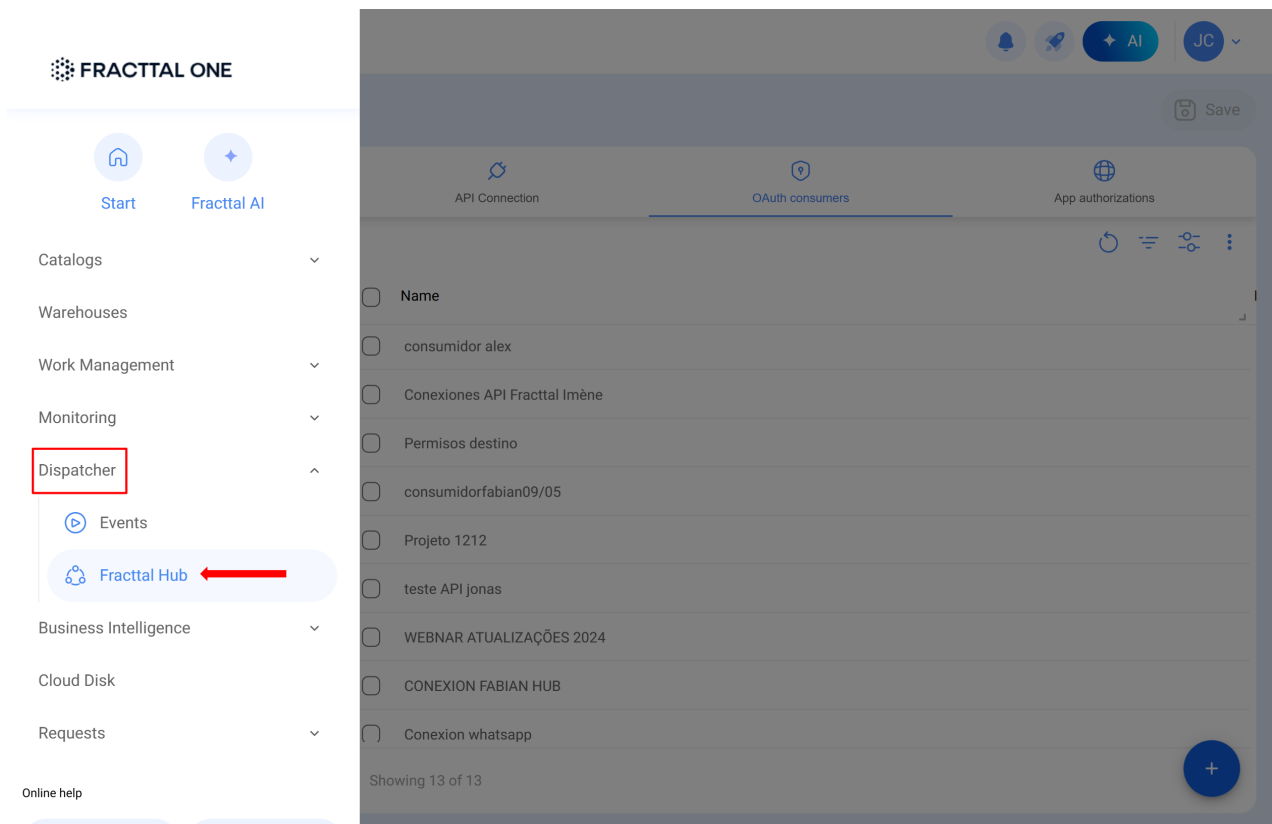
- private_key
- client_email
- client_id
- client_x509_cert_url

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

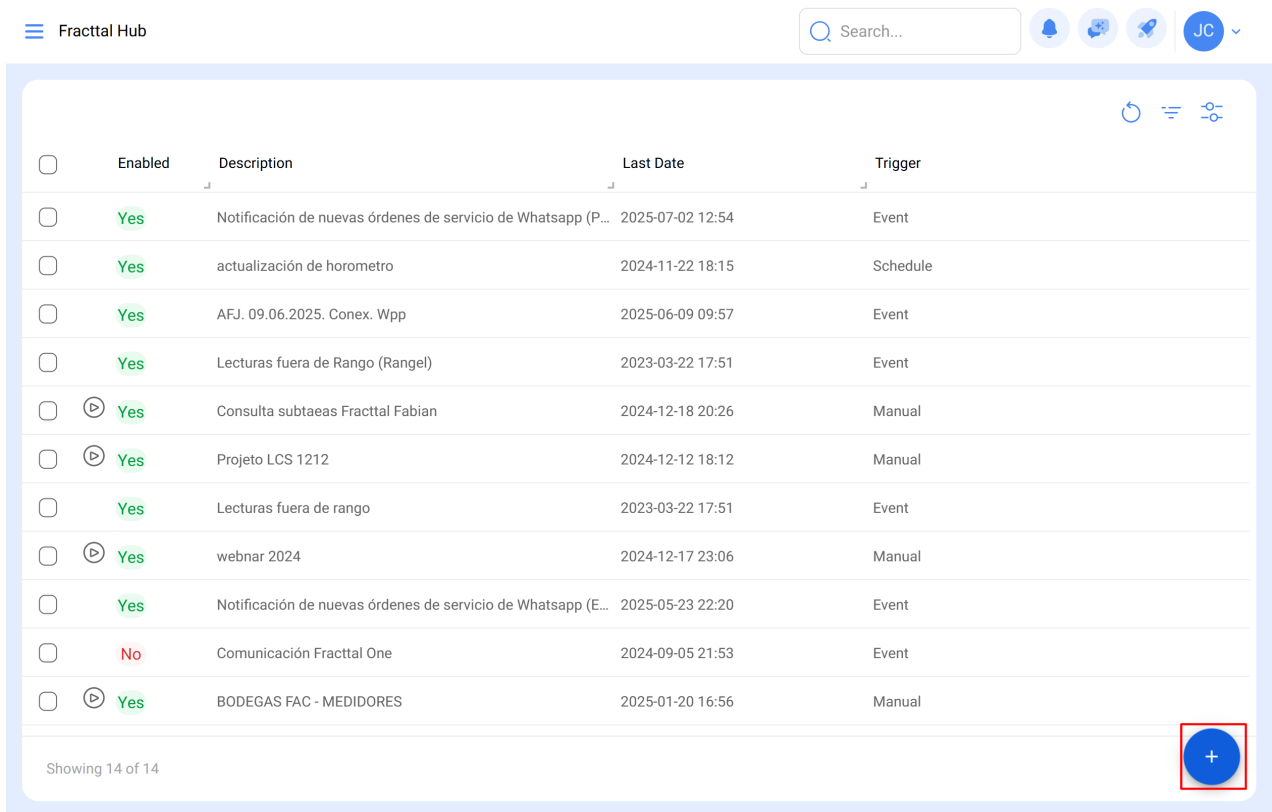
Step 6: Configure the flow in Fractal Hub

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

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



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



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

The screenshot displays the Fractal Hub interface for configuring a flow. At the top, the header includes the 'Fractal Hub' logo, a notification bell, a search icon, an 'AI' button, and a user profile 'JC'. On the left sidebar, there is a toggle for 'Enabled', a 'Required Information' section with three bullet points, and a 'Flow' section with 'Execution history' and 'Event queue' links. The main area is titled 'Flow settings' and contains a 'Description' field with the text 'CREAR MEDIDOR', which is highlighted by a red rectangle. Below the description, a flow diagram is shown with three stages: 'Source' (containing 'Trigger' and 'Source' components), 'Filter' (containing 'Select One' component), and 'Target' (containing 'Connection' and 'Settings' components). Arrows indicate the flow from Source to Filter to Target.

Trigger configuration:

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

Fractal Hub

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 MEDIDOR

Trigger

Source

Select One

Connection

Settings

Source

Filter

Target

Source configuration:

Fractal Hub

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 MEDIDOR

Trigger

Source

Select One

Connection

Settings

Source

Filter

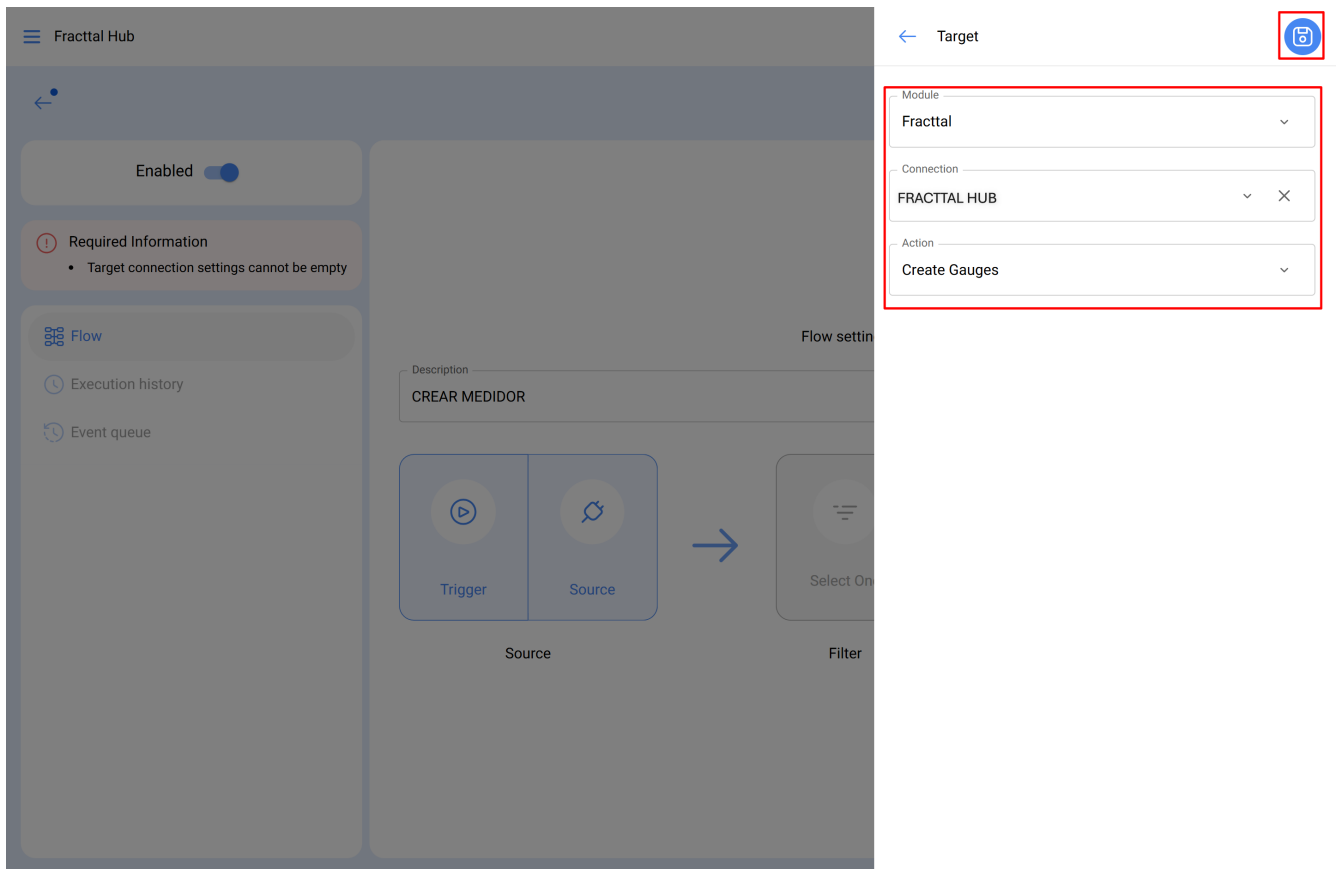
Target

- 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: *description*, *item_code*, *unit_code*, *is_counter*.

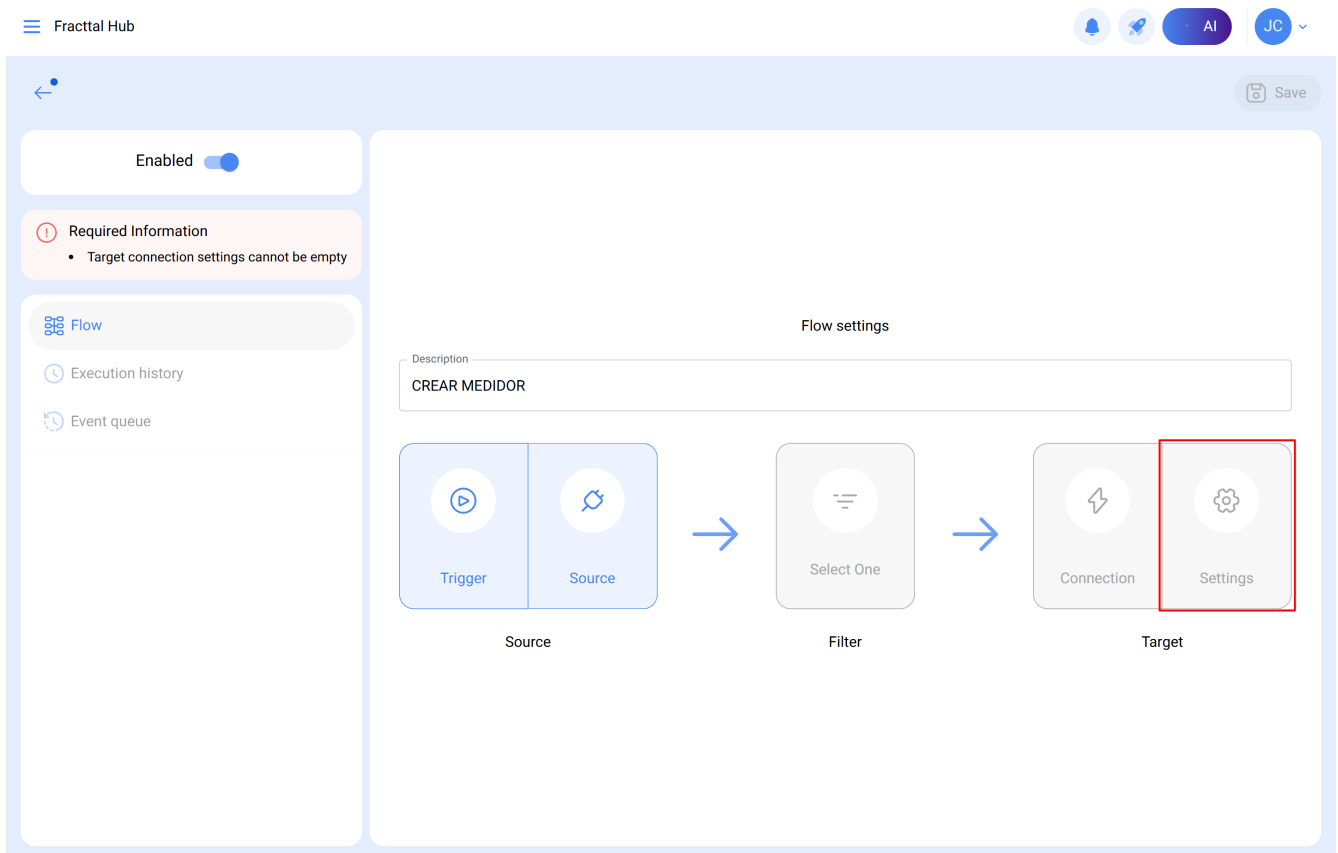
Destination configuration:

The screenshot displays the Fractal Hub interface for configuring a flow. On the left sidebar, there is a toggle for 'Enabled' and a 'Required Information' section listing: 'Source configuration cannot be empty', 'Target connection settings cannot be empty', and 'Mapping to destination configuration cannot be empty'. Below this are links for 'Flow', 'Execution history', and 'Event queue'. The main workspace shows a flow diagram with three stages: 'Source' (containing 'Trigger' and 'Source' components), 'Filter' (containing 'Select One'), and 'Target' (containing 'Connection' and 'Settings' components). The 'Connection' component in the Target stage is highlighted with a red box. Above the flow diagram, the 'Flow settings' section includes a 'Description' field with the text 'Asociar activo a plan de MTTO'. A 'Save' button is located in the top right corner of the main workspace.

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



Field configuration (mapping):



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

The screenshot displays the 'Fields Configuration' dialog in the Fractal Hub. The dialog is titled 'Fields Configuration' and shows the mapping between 'Source: Google Sheet' and 'Target: Fractal API'. The 'Source (Fields)' column lists the following fields: 'description', 'item_code', 'unit_code', 'is_counter', and 'All -> Object'. The 'Target (Fields)' column lists the following fields: 'description', 'item_code', 'unit_code', 'serial', 'is_counter', 'serial_parent_meter', and 'last_reading'. Each source field is mapped to a target field with a right-pointing arrow. The 'is_counter' field is mapped to 'serial', and 'All -> Object' is mapped to 'is_counter', 'serial_parent_meter', and 'last_reading'.

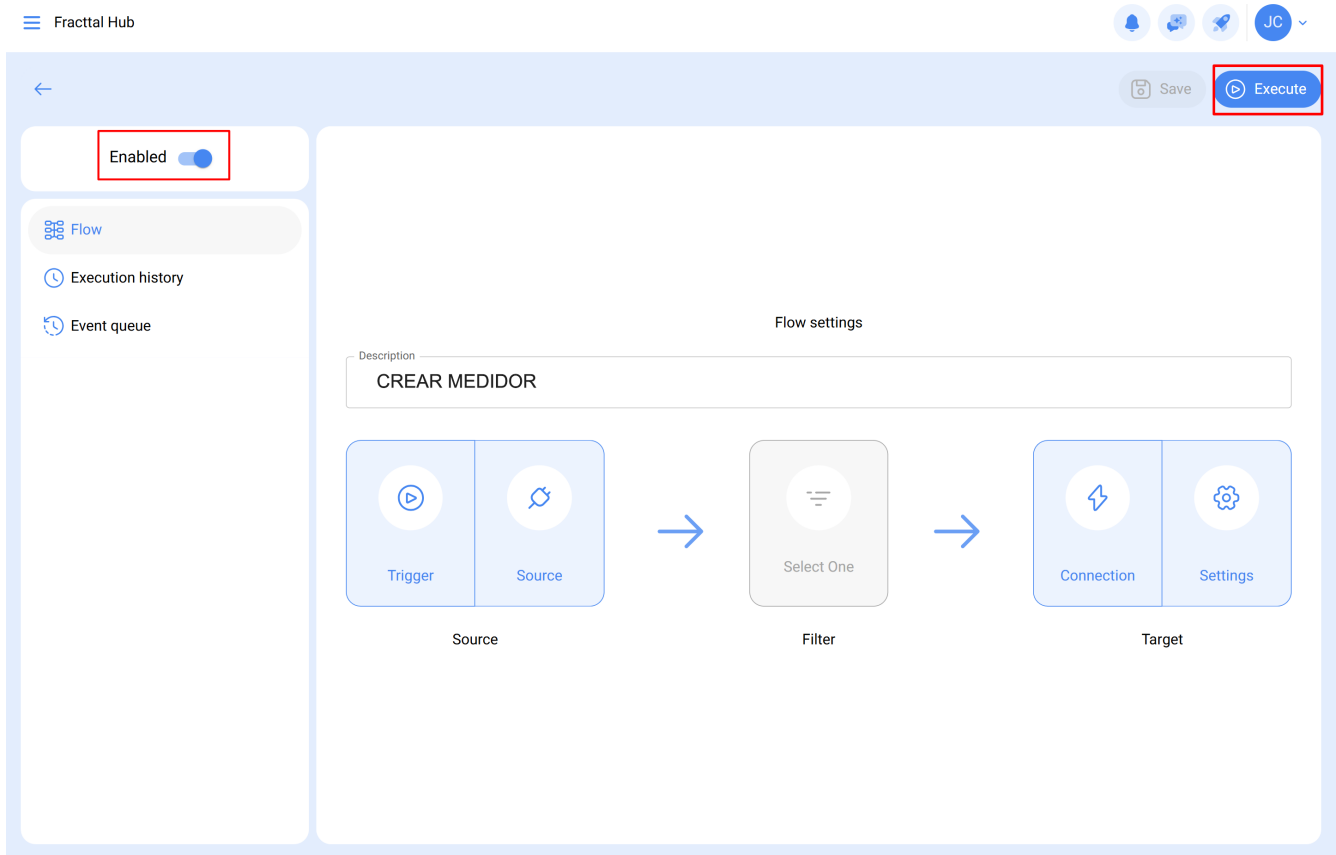
Source (Fields)	Target (Fields)
description	description
item_code	item_code
unit_code	unit_code
is_counter	serial
All -> Object	is_counter
All -> Object	serial_parent_meter
All -> Object	last_reading

Step 7: Run and verify the flow

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

The screenshot shows the Fractal Hub interface with the 'Fields Configuration' panel open. The 'Enabled' switch is turned on. The 'Source' is 'Google Sheet' and the 'Target' is 'Fractal API'. The 'Source (Fields)' list includes 'description', 'item_code', 'unit_code', 'is_counter', 'All -> Object', 'All -> Object', and 'All -> Object'. The 'Target (Fields)' list includes 'description', 'item_code', 'unit_code', 'serial', 'is_counter', 'serial_parent_meter', and 'last_reading'. A red box highlights the 'Save' button in the top right corner.

2. Turn on the **Enabled** switch.
3. Click again on **Save**.
4. Click on the **Run** button to start the process.



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.

To verify, go to **Tasks > Task Plan**, select the corresponding plan, and in the **Linked Assets** tab, you will see the asset that was associated via the spreadsheet.

Notes:

- This method is only compatible with task plans based on **frequency (date)**. It is not compatible with plans that have triggers by meter **reading**.
- You can add multiple rows in your Google Sheets to associate multiple assets to one or more plans at once.