

How to create equipment using Fracttal Hub?

help.fracttal.com/hc/en-us/articles/37609623465229-How-to-create-equipment-using-Fracttal-Hub

The integration with Fracttal Hub facilitates the controlled incorporation of new equipment into the platform, ensuring that the data follows a standardized structure. This guide explains how to set up a secure flow to create equipment in Fracttal One using a spreadsheet as the data source.

The connection will be established using a **Service Account** from Google Cloud Platform, which is the recommended method for server-to-server integrations, ensuring security and autonomy.

Stage 1: Setup in Google Cloud Platform (GCP)

The first step is to create the necessary credentials in the Google platform to allow Fracttal One to securely access your sheet.

1.1. Access the service account

Access the Google Cloud Platform Console.

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Click on **+ CREATE CREDENTIALS** and select the option **Service Account**.

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API APIs and services

- Enabled APIs and Services
- Library
- Credentials**
- OAuth Permission Screen
- Page usage agreements

Credentials [+ Create credentials](#) [Delete](#) [Restore deleted credentials](#)

Create credentials to a **Remember** [Configure consent screen](#)

API Keys

Name [Help me choose](#)
Asks a few questions to help you decide what type of credential to use

No API key to display

OAuth 2.0 Client IDs

<input type="checkbox"/>	Name	Date of creation ↓	Type	Client ID	Actions
No OAuth client to display					

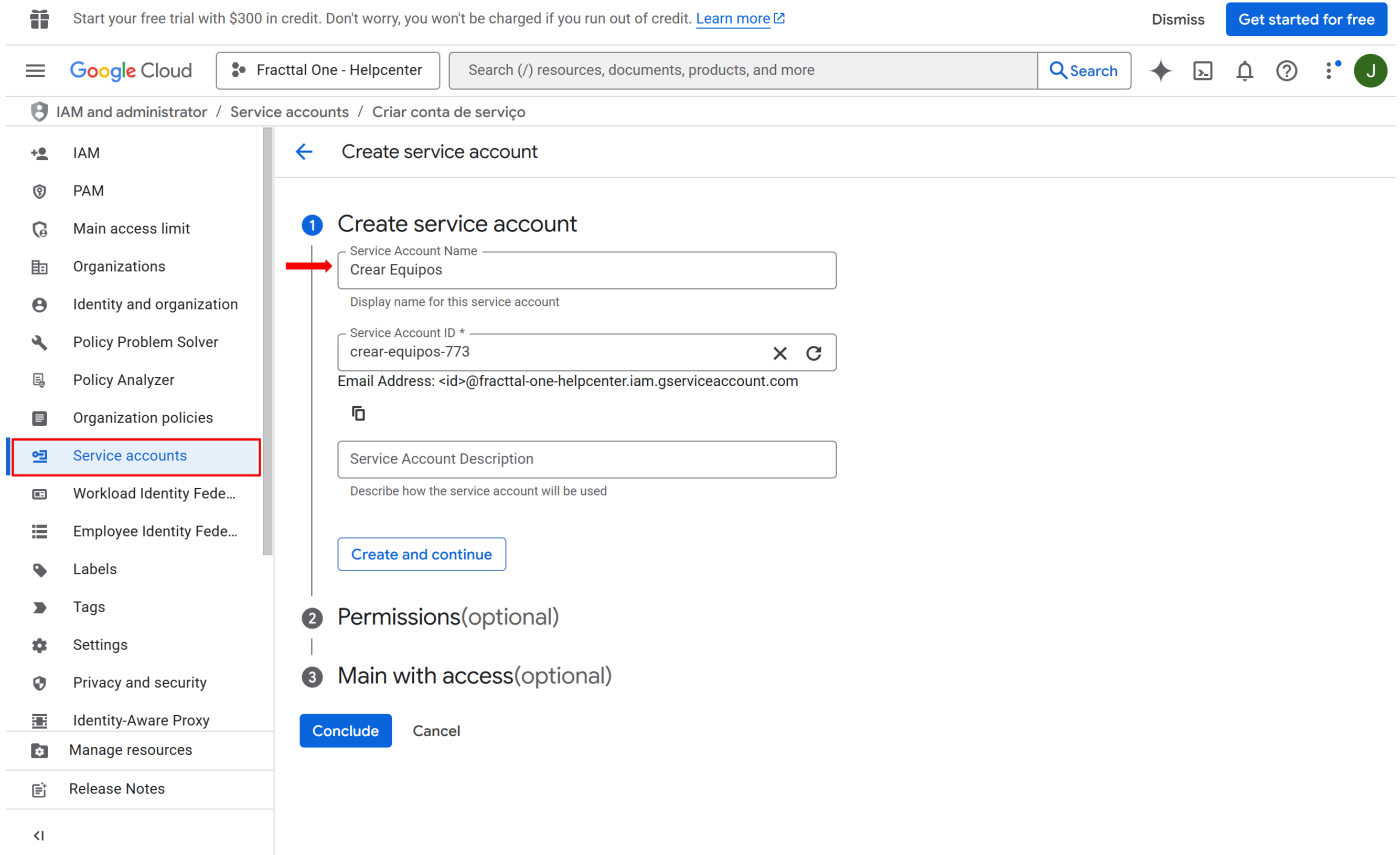
Service accounts [Manage Service Accounts](#)

<input type="checkbox"/>	E-mail	Name ↑	Actions
No service account to display			

Displaying project "Fractal One - Helpcenter" in organization "No organization"

Complete the following fields:

- o **Service Account Name:** Assign a descriptive name.
- o **Service Account ID:** Generally generated automatically from the name.



Click on "Done" to finish creating the credential.

Once created, it will be necessary to enable it so that it can be used in the integration processes.

1.2. Generate the Access Key (JSON)

- On the **Credentials** screen, locate the newly created service account and click on its email address.
- Go to the **KEYS** tab.
- Click on **ADD KEY** and select **Create new key**.

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- 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 Teams

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

Key	Date of creation	Expiration date	
78df830c67e266e185b2a202caea908b7a57cc47	1 de jul. de 2025	31 de dez. de 9999	🗑️

Choose the type **JSON** (recommended) and click on **CREATE**.

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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

Type	Status	Key	Date of creation	Expiration date	
🔑	✅ Ativo	78df830c67e266e185b2a202caea908b7a57cc47	1 de jul. de 2025	31 de dez. de 9999	🗑️

Create private key for "Create Equipment"

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**

A `.json` file will automatically download to your computer. Save it in a secure place, as it contains the access credentials and will be needed in Stage 3.

Stage 2: Preparing the Google Sheets

Now we will prepare the sheet that will serve as the data source.

Open your Google Sheets.

Header structure:

In the first row, ensure that the column names exactly match the parameters required by the Fractal API for asset creation. The required fields are:

- `code`: Unique asset code.
- `id_type_item`: Numeric ID of the asset type (for example: `2` for Equipment, according to the API documentation).
- `field_1`: Corresponds to the **Name** of the asset.

<code>code</code>	<code>id_type_item</code>	<code>field_1</code>
HUB-001	2	SUV TRUCK

Share the sheet:

It is crucial to grant access permission to the Service Account we created.

In GCP, copy the email of your service account.

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Service accounts

Create Teams

Details Permissions Keys Metric Records Main with access

Service Account Details

Name
Crear Equipos Save

Description Save

E-mail
crear-equipos@fractal-one-helpcenter.iam.gserviceaccount.com

Unique ID
103039734183100900089

Service Account Status

Deactivating your account allows you to preserve your policies without having to delete your account.

Activated

Disable service account

Advanced settings

- Return to the spreadsheet, click on **Share**.
- Paste the email in the share field.
- Assign the **Editor** permission.
- Click on **Send/Share**.

F 2

Return to the spreadsheet, click Share [Share](#)

Share with people and groups

crear-equipos@fractalonehelpcenter.iam.gserviceaccount.com

Restricted • Only people added can open with this link

Assign the Editor permission

Editor

Send

Stage 3: Setting up the connection in Fractal One

With the credentials and the sheet ready, we will set up the communication bridge within Fractal One.

In Fractal One, navigate to **Settings > Auxiliary Catalogs**.

The screenshot shows the Fractal One interface. At the top left, there is a 'Settings' menu with a red arrow pointing to it. The main content area is titled 'Activación Fractal - Español - 477' and has a 'Save' button. The sidebar on the left contains the following menu items: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (highlighted with a red box), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main content area is titled 'Type: Catalogue of Failures' and has three tabs: Failure Types (selected), Failure Causes, and Fault Detection. Below the tabs is a table with the following data:

	Description ↑
<input type="checkbox"/>	00-ELECTRICA
<input type="checkbox"/>	Alta temperatura
<input type="checkbox"/>	ar não gela
<input type="checkbox"/>	Atascamiento
<input type="checkbox"/>	Bateria con voltaje bajo
<input type="checkbox"/>	CALENTAMIENTO DE MOTOR
<input type="checkbox"/>	CAVITATION
<input type="checkbox"/>	COMPRESOR

At the bottom of the table, it says 'Showing 50 of 76' and there is a blue circular button with a white plus sign.

- In the catalog selector, choose **Connections**.
- Click on the **+** icon to add a new connection.

- General
- User Accounts
- Business Calendar
- Modules
- Financial
- Auxiliary Catalogs**
- Document Management
- Transactions Log
- Security
- API Connections
- Guest Portal
- Account

Type: **Connections**

Description ↑	Type
<input type="checkbox"/> AFJ CONEXION GOOGLE SHEET	Google Sheet (Service Account)
<input type="checkbox"/> AFJ - Notificaciones 09.06.2025	WhatsApp
<input type="checkbox"/> Conexion con GoogleSheet Fabian	Google Sheet (Service Account)
<input type="checkbox"/> Conexion google sheet	Google Sheet (Service Account)
<input type="checkbox"/> Conexión Google Sheet	Google Sheet (Service Account)
<input type="checkbox"/> CONEXIÓN GOOGLE SHEET FERNANDO	Google Sheet (Service Account)
<input type="checkbox"/> Demo WhatsApp	WhatsApp
<input type="checkbox"/> Integración googlesheet Imè nec	Google Sheet (Service Account)
<input type="checkbox"/> Prieto LCS	Google Sheet (Service Account)

Showing 11 of 11

+ (Add button)

Configure the following fields:

Settings

Activación Fractal - Español - 477

Connections

Description ↑	Type
<input type="checkbox"/> AFJ CONEXION GOOGLE SHEET	Google Sheet
<input type="checkbox"/> AFJ - Notificaciones 09.06.2025	WhatsApp
<input type="checkbox"/> Conexion con GoogleSheet Fabian	Google Sheet
<input type="checkbox"/> Conexion google sheet	Google Sheet
<input type="checkbox"/> Conexión Google Sheet	Google Sheet
<input type="checkbox"/> CONEXIÓN GOOGLE SHEET FERNANDO	Google Sheet
<input type="checkbox"/> Demo WhatsApp	WhatsApp
<input type="checkbox"/> Integración googlesheet Imè nec	Google Sheet
<input type="checkbox"/> Prieto LCS	Google Sheet

Showing 11 of 11

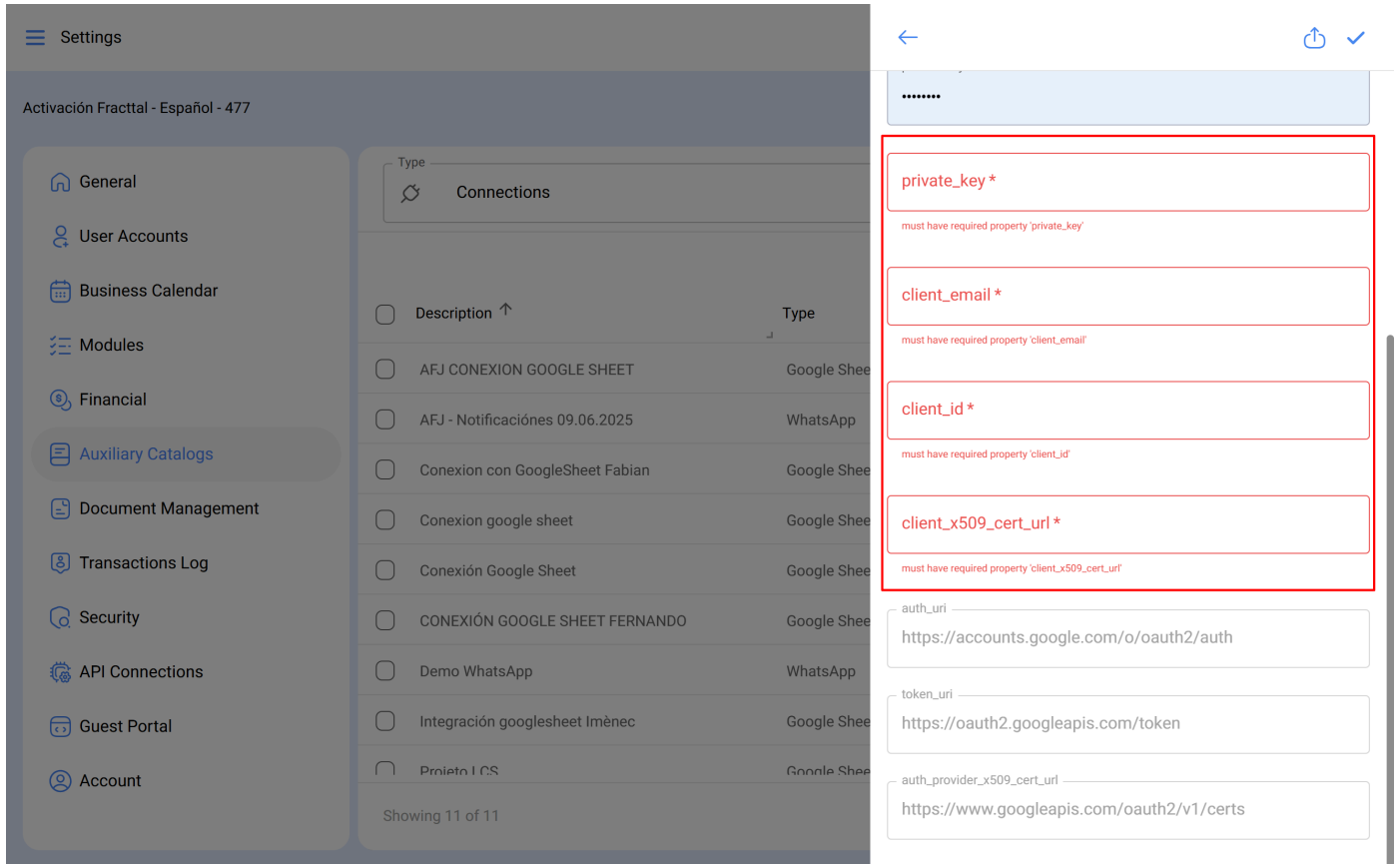
Configuration form fields:

- Type: **Google Sheet (Service Account)**
- Description: **Crear Equipos**
- service_account
- project_id *
- private_key_id * (masked with dots)
- private_key * (must have required property 'private_key')
- client_email * (must have required property 'client_email')
- client_id * (must have required property 'client_id')

- **Type:** Select **Google Sheet (Service Account)**.
- **Description:** Enter a clear name for this connection, for example, **CREATE EQUIPMENT**.

Complete the credentials:

Open the **.json** file downloaded in Stage **1.2** and copy and paste the content of each field into the Fractal One form:



- **private_key**
- **client_email**
- **client_id**
- **client_x509_cert_url**
- ...and the other required fields.

Settings

Activación Fractal - Español - 477

General

User Accounts

Business Calendar

Modules

Financial

Auxiliary Catalogs

Document Management

Transactions Log

Security

API Connections

Guest Portal

Account

Type

Connections

Description ↑	Type
<input type="checkbox"/> AFJ CONEXION GOOGLE SHEET	Google Shee
<input type="checkbox"/> AFJ - Notificaciones 09.06.2025	WhatsApp
<input type="checkbox"/> Conexion con GoogleSheet Fabian	Google Shee
<input type="checkbox"/> Conexion google sheet	Google Shee
<input type="checkbox"/> Conexión Google Sheet	Google Shee
<input type="checkbox"/> CONEXIÓN GOOGLE SHEET FERNANDO	Google Shee
<input type="checkbox"/> Demo WhatsApp	WhatsApp
<input type="checkbox"/> Integración googlesheet Imènec	Google Shee
<input type="checkbox"/> Prieto LCS	Google Shee

Showing 11 of 11

project_id *

private_key_id *

private_key *

client_email *

crear-equipos@fractal-one-helpcenter.iam.gserviceaccount.c

client_id *

client_id

client_x509_cert_url *

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

auth_uri

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

token_uri

https://oauth2.googleapis.com/token

auth_provider_x509_cert_url

https://www.googleapis.com/oauth2/v1/certs

Click on **Save**.

Stage 4: Create the flow in the Automator (Fractal Hub)

Finally, we will create the automation flow that will read the data and create the assets.

Go to the main menu and select **Automator > Fractal Hub**.



- Catalogs ▾
- Warehouses
- Work Management ▾
- Monitoring ▾
- Dispatcher ▾
 - Events
 - Fractal Hub
- Business Intelligence ▾
- Cloud Disk
- Requests ▾
- Online help

Save

Type
Connections

<input type="checkbox"/>	Description ↑	Type
<input type="checkbox"/>	AFJ CONEXION GOOGLE SHEET	Google Sheet (Service Account)
<input type="checkbox"/>	AFJ - Notificaciones 09.06.2025	WhatsApp
<input type="checkbox"/>	Conexion con GoogleSheet Fabian	Google Sheet (Service Account)
<input type="checkbox"/>	Conexion google sheet	Google Sheet (Service Account)
<input type="checkbox"/>	Conexión Google Sheet	Google Sheet (Service Account)
<input type="checkbox"/>	CONEXIÓN GOOGLE SHEET FERNANDO	Google Sheet (Service Account)
<input type="checkbox"/>	Demo WhatsApp	WhatsApp
<input type="checkbox"/>	Integración googlesheet Imènc	Google Sheet (Service Account)
<input type="checkbox"/>	Proieto LCS	Google Sheet (Service Account)

Showing 11 of 11
+

Click on the + icon to create a new flow.

🔄
☰
⚙️

<input type="checkbox"/>	Enabled	Description	Last Date	Trigger
<input type="checkbox"/>	Yes	Notificación de nuevas órdenes de servicio de Whatsapp (P...	2025-05-29 16:57	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	Proieto 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
<input type="checkbox"/>	Yes	Manual

Showing 14 of 14
+

Assign a name to the flow.

Fractal Hub

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 Equipos

Trigger Source

Filter

Connection Settings

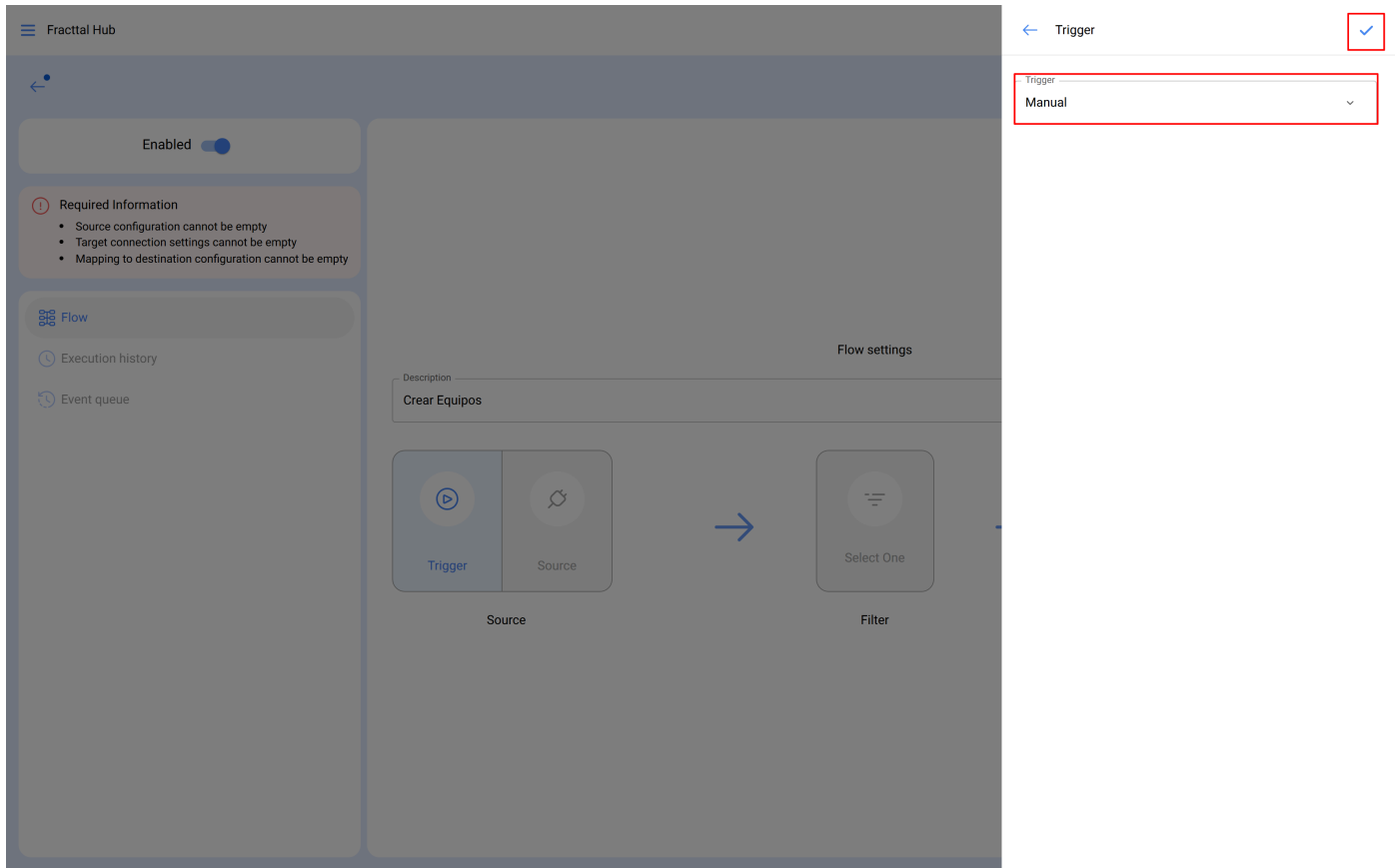
Source Filter Target

4.1. Configure the Source

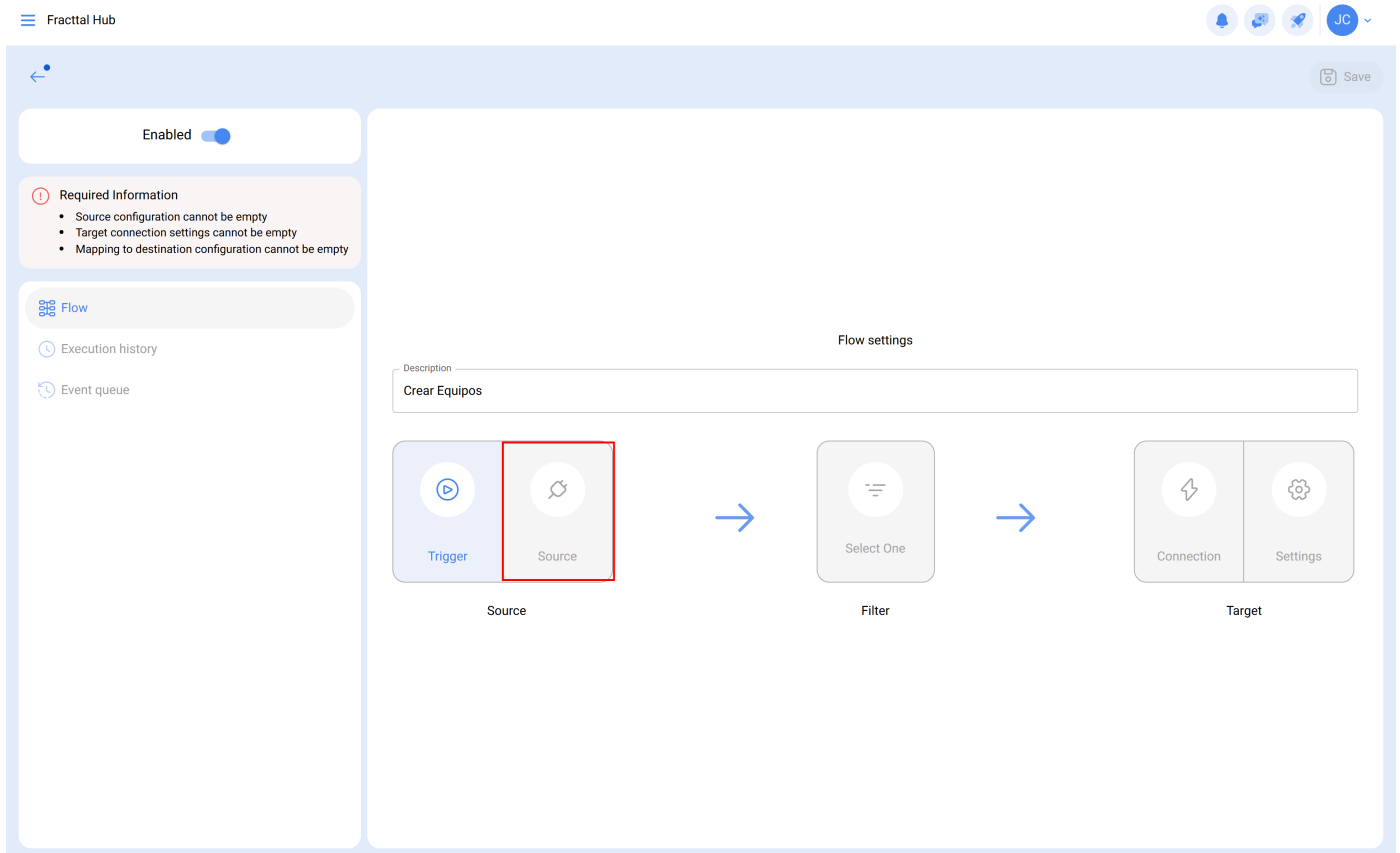
Trigger

The screenshot shows the Fractal Hub interface for configuring a flow. On the left, there is a sidebar with an 'Enabled' toggle, 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 Equipos'. Below this, a flow diagram is shown with three stages: 'Source', 'Filter', and 'Target'. The 'Source' stage has two options: 'Trigger' (highlighted with a red box) and 'Source'. The 'Filter' stage has one option: 'Select One'. The 'Target' stage has two options: 'Connection' and 'Settings'. Arrows indicate the flow from Source to Filter to Target.

For this example, select **Manual**. This allows you to run the flow whenever you want.



Source:



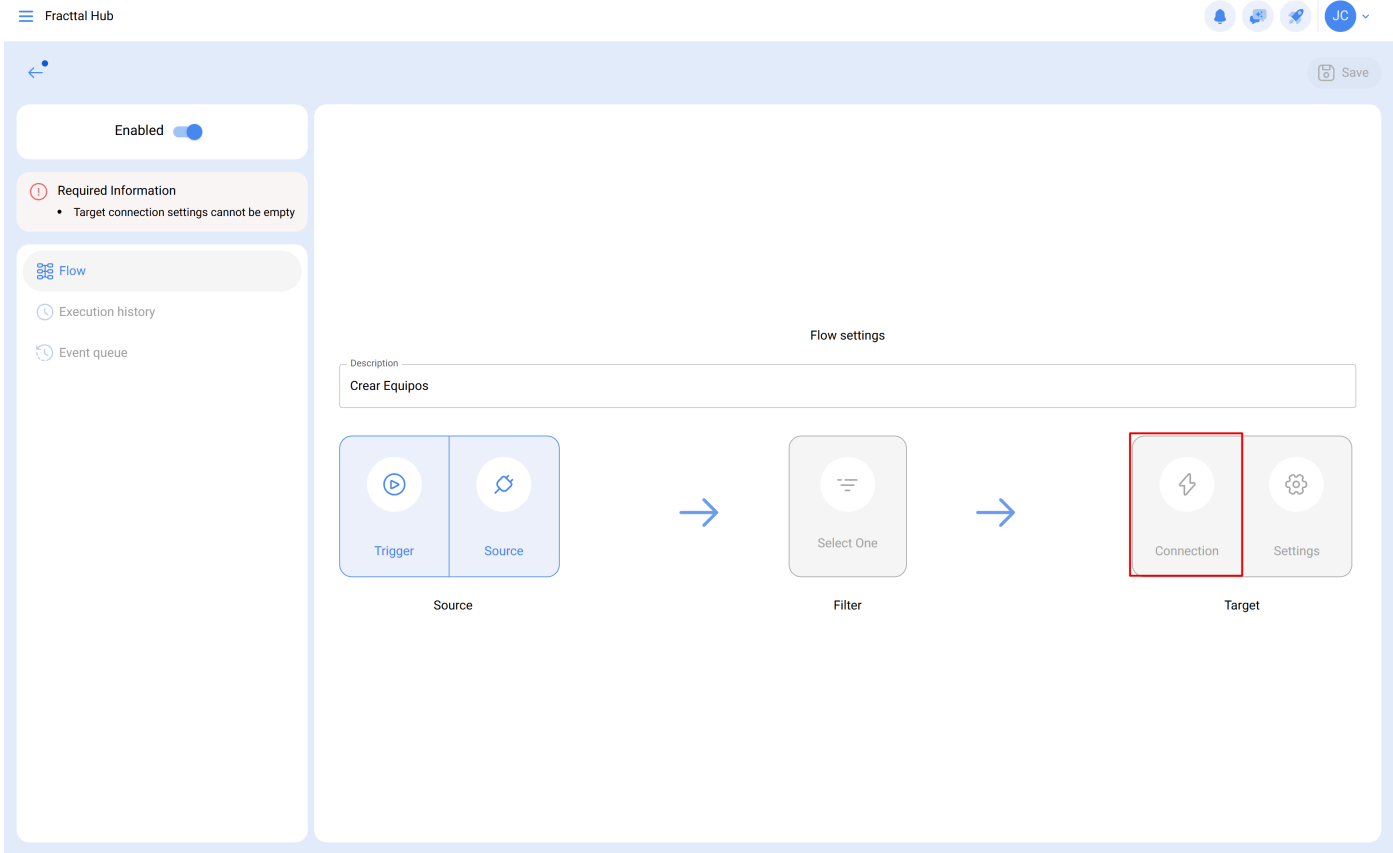
- **Module:** Select **GoogleSheet**.
- **Connection:** Select the connection created in Stage 3 (**CREATE EQUIPMENT**).
- **Action:** Select **Read**.
- **spreadsheet_id:** Paste the ID of your sheet. You can find it in the URL (the long code between **/d/** and **/edit**).
- **sheet:** Enter **0** to read the first tab (numbering starts at 0).
- **Fields:** Add the header names from your sheet (**code**, **id_type_item**, **field_1**).

The screenshot displays the Fractal Hub interface. On the left, there is a sidebar with navigation options: 'Flow', 'Execution history', and 'Event queue'. The main workspace shows a flow configuration for a 'Source' block (Google Sheet) connected to a 'Filter' block. A settings panel on the right is open, showing configuration for the Google Sheet source. The settings include:

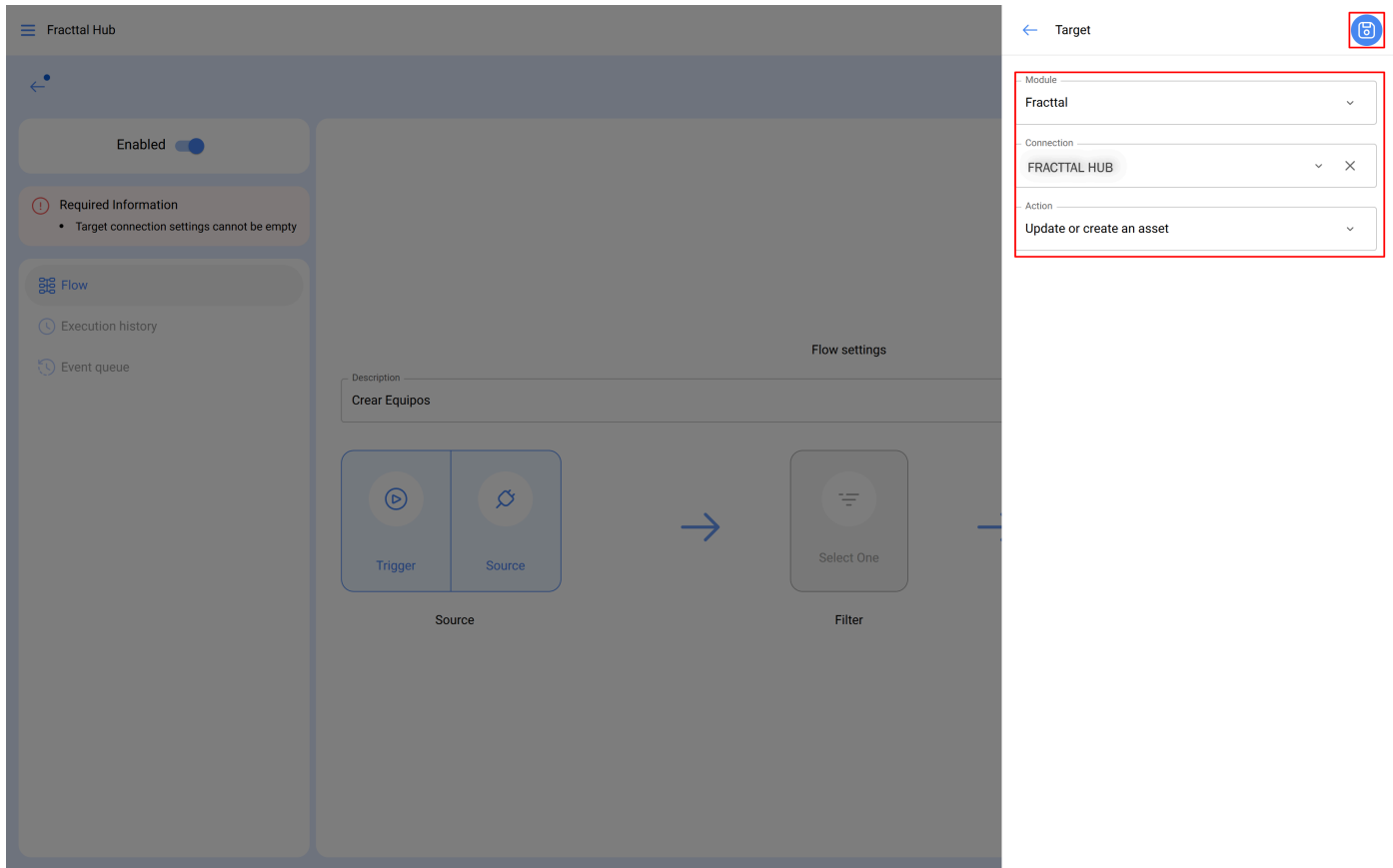
- Module:** GoogleSheet
- Connection:** Conexión Google Sheet
- Action:** Read
- spreadsheet_id:** <https://www.googleapis.com/robot/v1/metadata/x509/crear>
- sheet:** 0
- Fields:**
 - Name: code, Type: Text
 - Name: id_type_item, Type: Text
 - Name: field-1, Type: Text

4.2. Configure the Destination

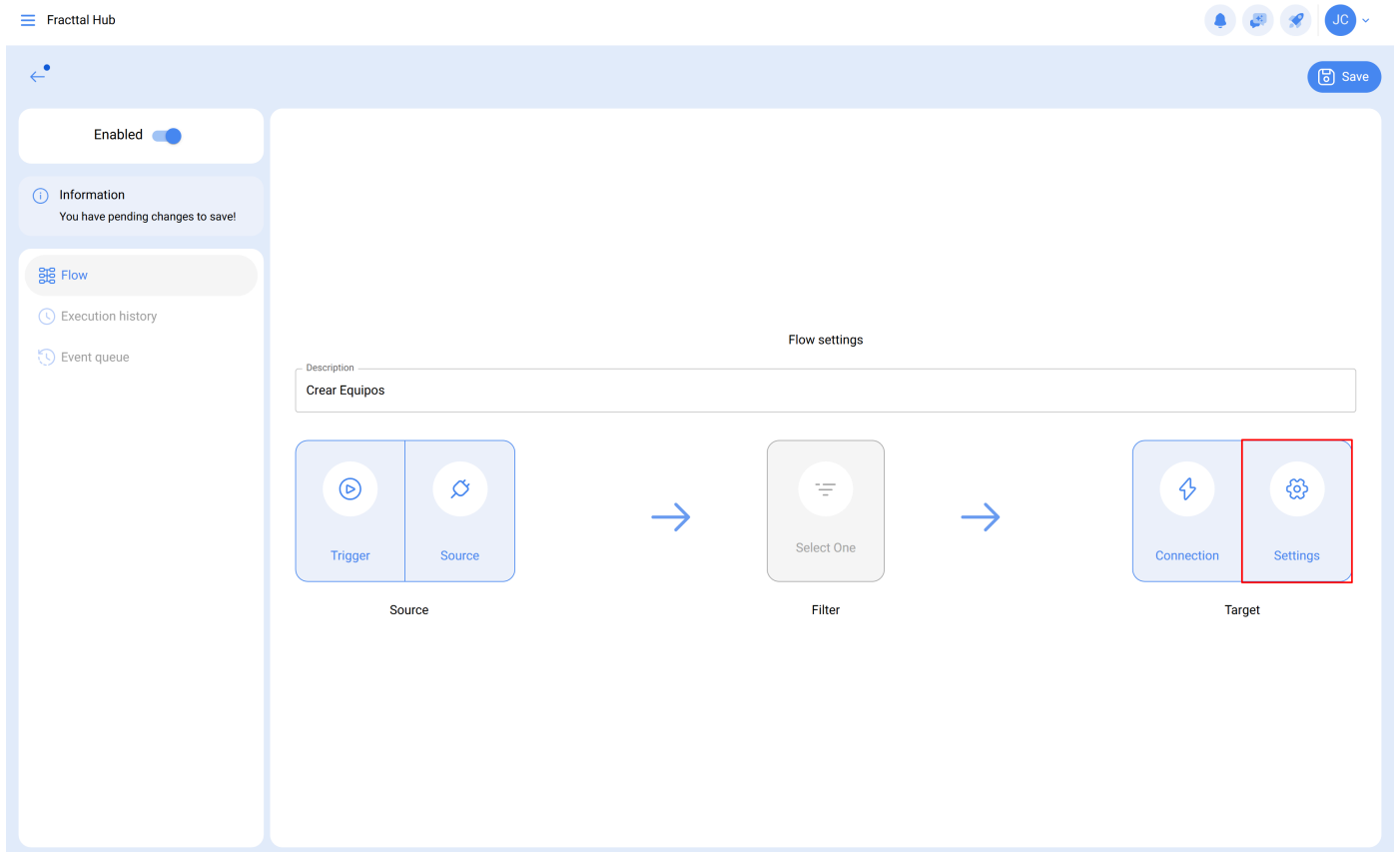
Connection:



- **Module:** Select **Fractal**.
- **Connection:** Select **FRACTTAL HUB**.
- **Action:** Select **Update or create an asset**.



Configuration



- Click on the gear icon (Settings).
- Map the source fields (Google Sheet) with the destination fields (Fractal API), ensuring they match:

The screenshot displays the Fractal Hub interface. On the left, a sidebar contains navigation options: 'Enabled' (toggle), 'Information' (You have pending changes to save!), 'Flow' (with a sub-menu icon), 'Execution history', and 'Event queue'. The main area shows 'Flow settings' for a flow named 'Crear Equipos'. It features a 'Source' section with 'Trigger' and 'Source' buttons, and a 'Filter' section with a 'Select One' button. On the right, a 'Fields Configuration' panel is open, showing a mapping between 'Source (Fields)' and 'Target (Fields)'. The source is 'Google Sheet' and the target is 'Fractal API'. The mapping table is as follows:

Source (Fields)	Target (Fields)
All -> Object	code
All -> Object	id_type_item
All -> Object	field_1
All -> Object	field_2
All -> Object	field_3
All -> Object	field_4
All -> Object	field_5
All -> Object	field_6

Red arrows point to the 'code', 'id_type_item', and 'field_1' target fields. Each row in the configuration panel includes a checkbox on the left and a gear icon on the right for settings.

The screenshot shows the Fractal Hub interface. On the left, there is a sidebar with 'Enabled' (checked), 'Information' (You have pending changes to save!), 'Flow', 'Execution history', and 'Event queue'. The main area is titled 'Flow settings' with a description 'Crear Equipos'. It shows a 'Source' section with 'Trigger' and 'Source' buttons, and a 'Filter' section with a 'Select One' button. On the right, a 'Fields Configuration' panel is open, showing a mapping from 'Source (Fields)' to 'Target (Fields)'. The source fields are 'code', 'id_type_item', and 'field-1', which are mapped to target fields 'code', 'id_type_item', and 'field_1' respectively. Below these are several 'All -> Object' mappings to target fields 'field_2' through 'field_6'. A red box highlights the top three mappings in the original image.

Click to save the mapping and then on **Save** in the upper right corner to save the entire flow.

The screenshot shows the Fractal Hub interface after the flow has been saved. The 'Flow settings' section now includes a 'Target' section with 'Connection' and 'Settings' buttons. A green 'Action Done' notification is visible at the bottom. The 'Save' button is visible in the top right corner of the main area.