

# How to create equipment using Fracttal Hub?

 [help.fracttal.com/hc/en-us/articles/37609623465229-How-to-create-equipment-using-Fracttal-Hub](https://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.

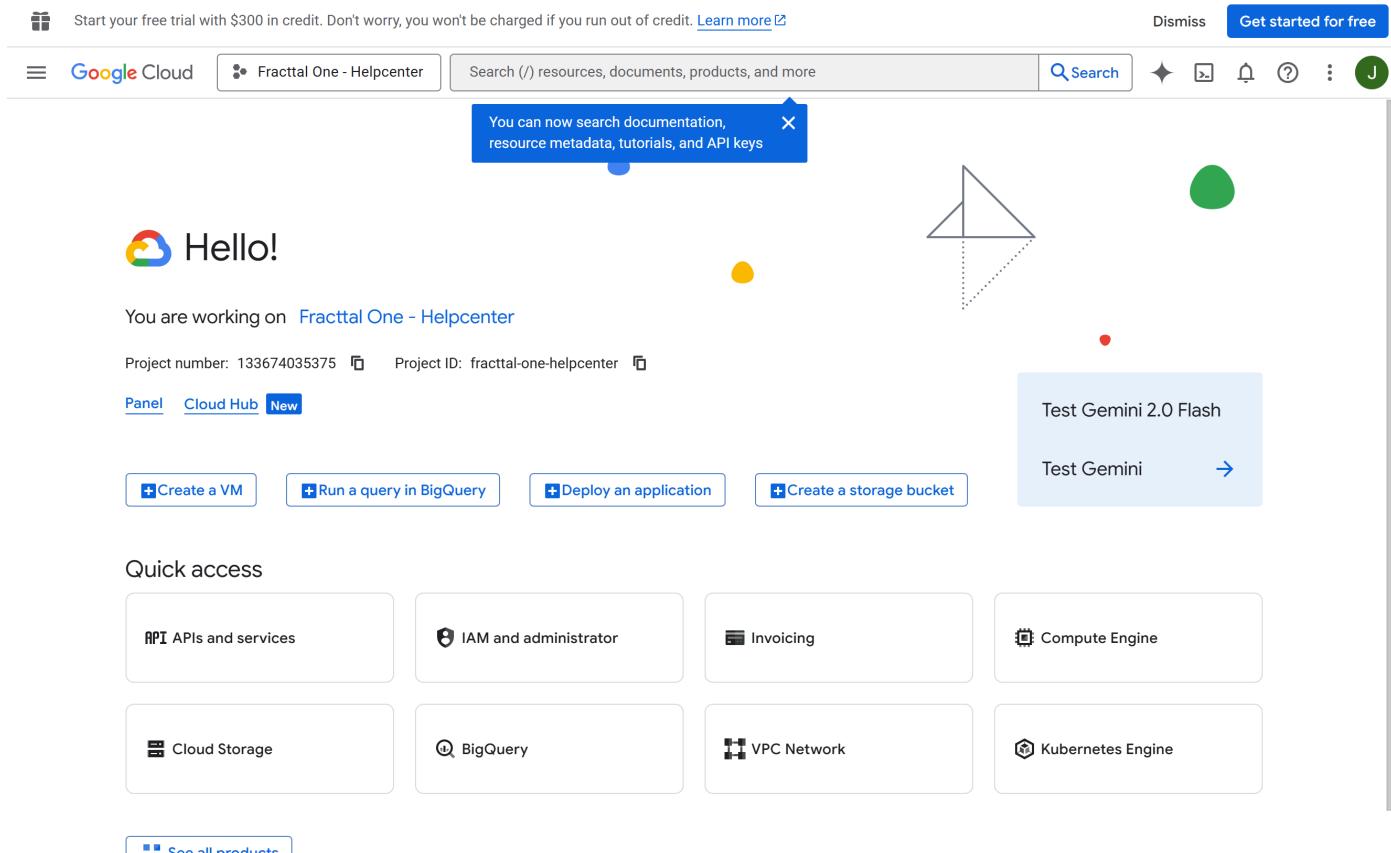
The connection will be established using a **Service Account** from Google Cloud Platform, which is the recommended method for server-to-server integrations, ensuring security and autonomy.

## 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.



The screenshot shows the Google Cloud Platform (GCP) console interface. At the top, there is a navigation bar with the Google Cloud logo, a search bar containing 'Fracttal One - Helpcenter', and a 'Get started for free' button. A search tooltip 'You can now search documentation, resource metadata, tutorials, and API keys' is visible. Below the navigation bar, the main content area starts with a 'Hello!' greeting and a message 'You are working on Fracttal One - Helpcenter'. It displays project details: 'Project number: 133674035375' and 'Project ID: fracttal-one-helpcenter'. The 'Cloud Hub' tab is selected in the navigation bar. On the right, there are two cards: 'Test Gemini 2.0 Flash' and 'Test Gemini'. Below these, there is a 'Quick access' section with eight boxes: 'APIs and services', 'IAM and administrator', 'Invoicing', 'Compute Engine', 'Cloud Storage', 'BigQuery', 'VPC Network', and 'Kubernetes Engine'. At the bottom left, there is a 'See all products' button.

In the navigation menu, go to **APIs & services > Credentials**.

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

You can now search documentation, resource metadata, tutorials, and API keys

# Hello!

You are working on **Fractal One - Helpcenter**

Project number: 133674035375 Project ID: fractal-one-helpcenter

Panel Cloud Hub New

+Create a VM +Run a query in BigQuery +Deploy an application +Create a storage bucket

Test Gemini 2.0 Flash Test Gemini

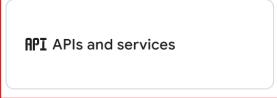
Quick access

API APIs and services (highlighted with a red box)

IAM and administrator Invoicing Compute Engine

Cloud Storage BigQuery VPC Network Kubernetes Engine

See all products



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

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API APIs and services (highlighted with a red box) Credentials + Create credentials

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

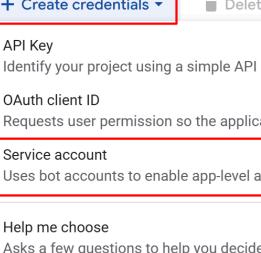
OAuth 2.0 Client IDs

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

Service accounts

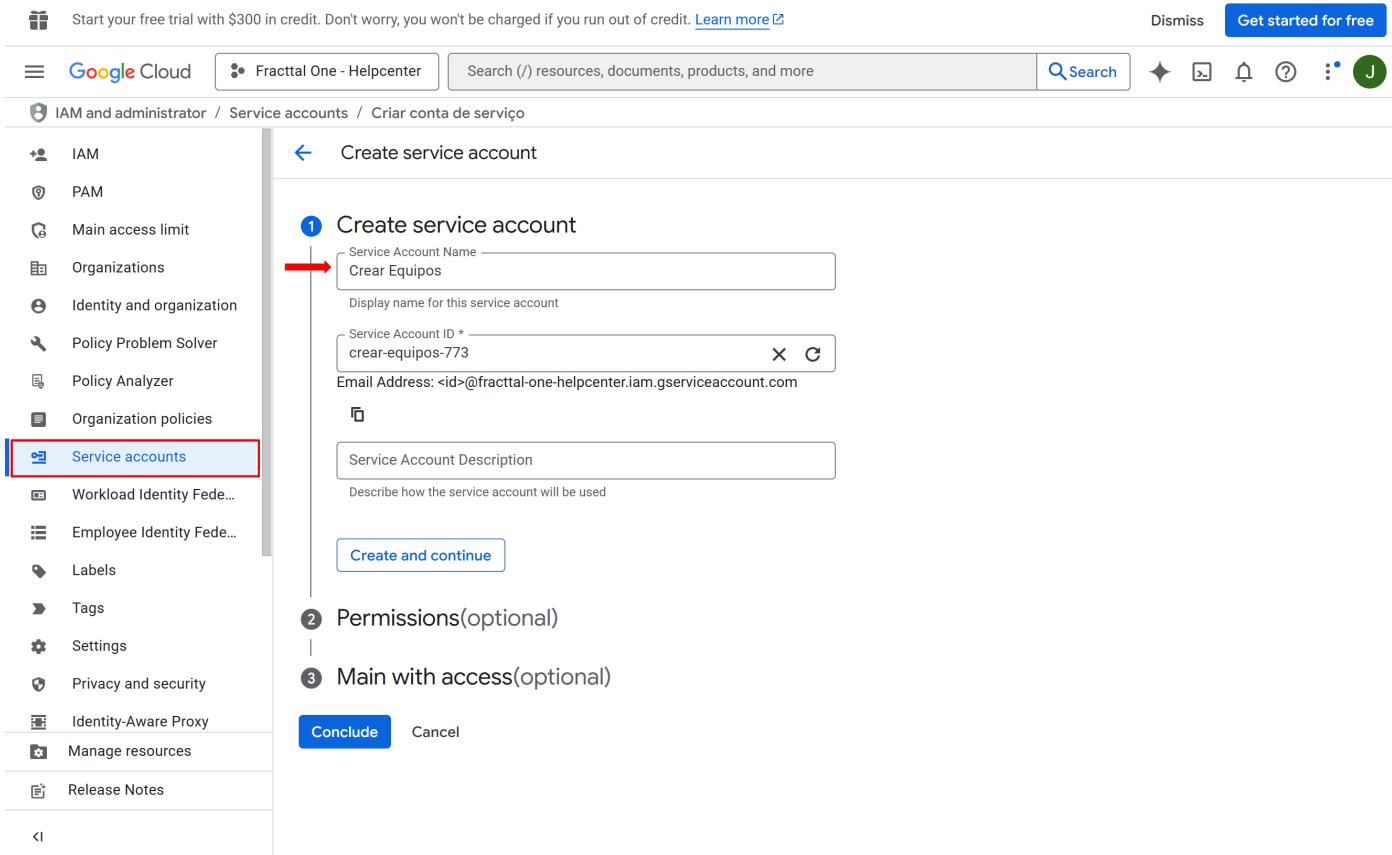
E-mail	Name	Actions
No service account to display		

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



Complete the following fields:

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



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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 (selected) 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  →

Display name for this service account

Service Account ID \*  C

Email Address:

Service Account Description

Describe how the service account will be used

Create and continue

2 Permissions(optional)

3 Main with access(optional)

Conclude Cancel

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 and administrator / Service accounts / Conta de serviço: 103039734183100900089 / Chaves

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 Key Date of creation Expiration date

Upload a current key 78df830c67e266e185b2a202cae908b7a57cc47 1 de jul. de 2025 31 de dez. de 9999

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

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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

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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

To create

Type Status Key Date of creation Expiration date

Ativo 78df830c67e266e185b2a202cae908b7a57cc47 1 de jul. de 2025 31 de dez. de 9999

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 Fracttal 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	id_type_item	field_1
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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IAM and administrator / Service accounts / Conta de serviço: 103039734183100900089

**Service Account Details**

Name: Crear Equipos Save

Description: Save

E-mail: **crear-equipos@fracttal-one-helpcenter.iam.gserviceaccount.com** Save

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** ▼

Service accounts

- Workload Identity Fede...
- Employee Identity Fede...
- Labels
- Tags
- Settings
- Privacy and security
- Identity-Aware Proxy
- Manage resources
- Release Notes

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

Return to the spreadsheet, click Share

Share

Share with people and groups

crear-equipos@fracttal-one-helpcenter.iam.gserviceaccount.com

Restricted • Only people added can open with this link

Assign the Editor permission

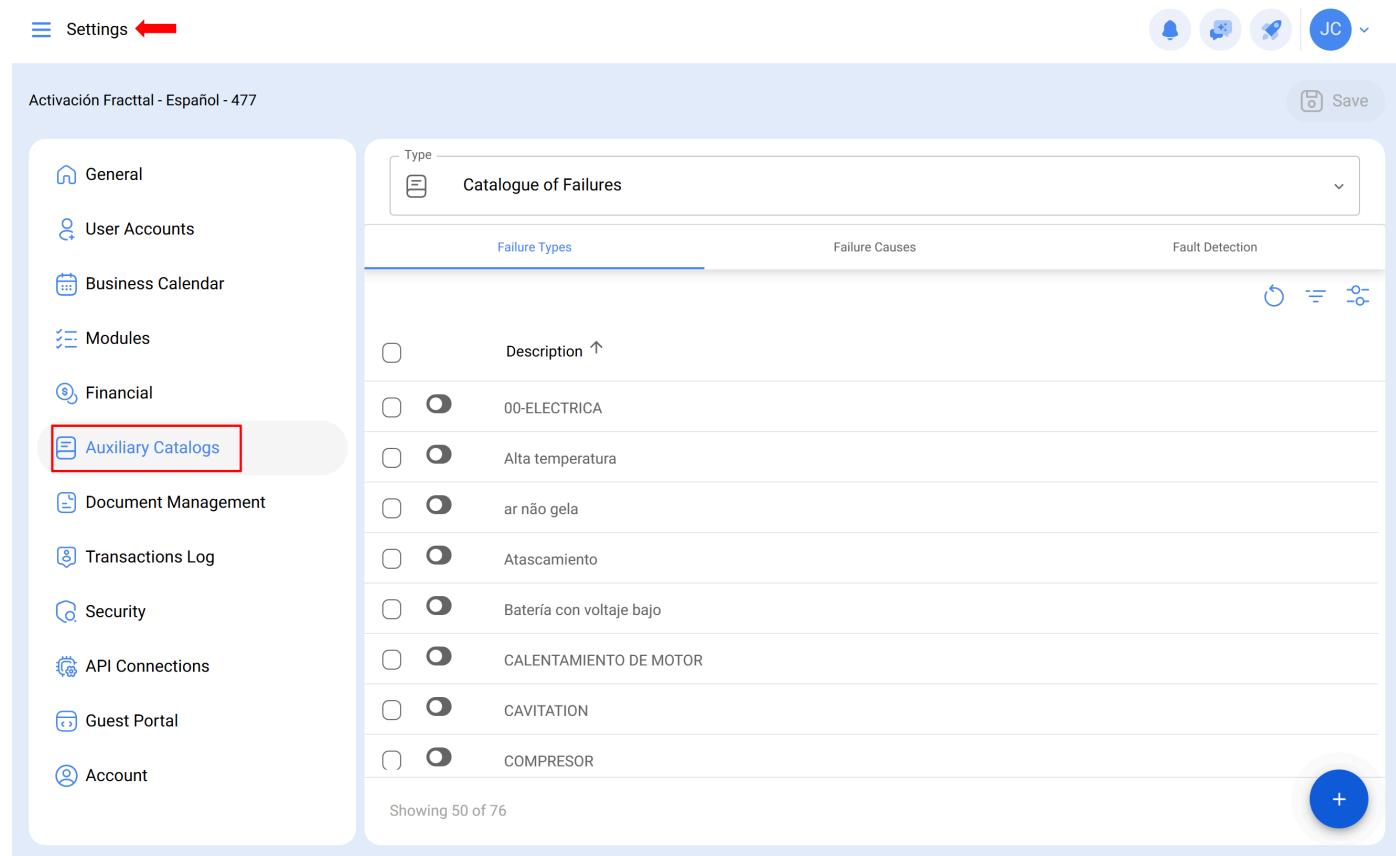
Editor

Send

## Stage 3: Setting up the connection in Fracttal One

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

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



Activación Fracttal - Español - 477

Save

Type: Catalogue of Failures

Failure Types Failure Causes Fault Detection

Description ↑

Failure Type	Failure Cause	Fault Detection
00-ELECTRICA		
Alta temperatura		
ar não gela		
Atascamiento		
Batería con voltaje bajo		
CALENTAMIENTO DE MOTOR		
CAVITATION		
COMPRESOR		

Showing 50 of 76

+

- 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 Imènec	Google Sheet (Service Account)
<input type="checkbox"/> Proyecto ICS	Google Sheet (Service Account)

Showing 11 of 11

## Configure the following fields:

- [General](#)
- [User Accounts](#)
- [Business Calendar](#)
- [Modules](#)
- [Financial](#)
- [Auxiliary Catalogs](#)
- [Document Management](#)
- [Transactions Log](#)
- [Security](#)
- [API Connections](#)
- [Guest Portal](#)
- [Account](#)

Type: **Google Sheet (Service Account)**

Description: **Crear Equipos**

Type: **service\_account**

project\_id\*: **.....**

private\_key\*: **private\_key\***  
must have required property 'private\_key'

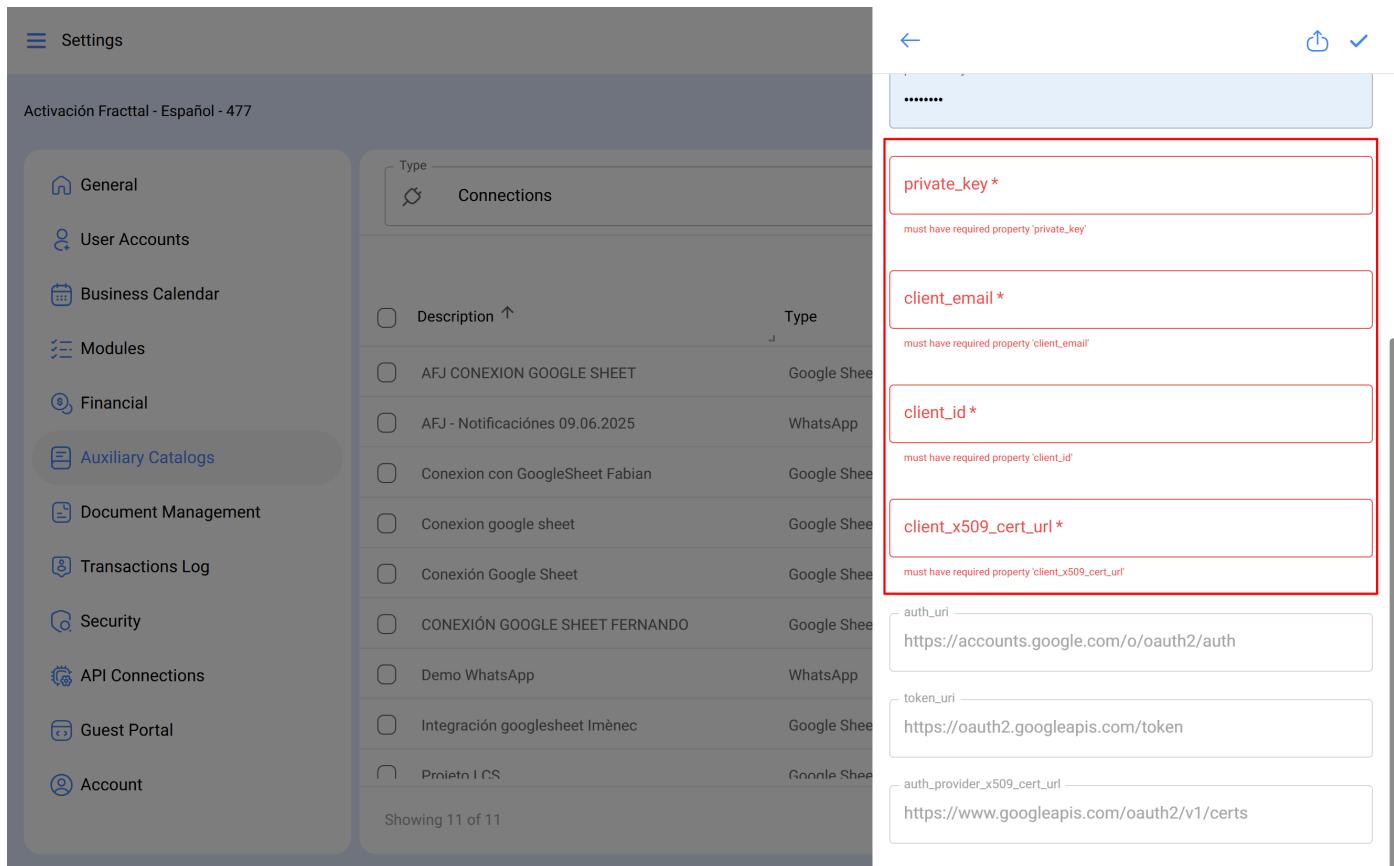
client\_email\*: **client\_email\***  
must have required property 'client\_email'

client\_id\*: **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 Fracttal One form:



The screenshot shows the 'Connections' section of the Fracttal One settings. On the left, a sidebar lists various modules: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (which is selected), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main area displays a list of existing connections, including 'AFJ CONEXIÓN GOOGLE SHEET', 'AFJ - Notificaciones 09.06.2025', 'Conexion con GoogleSheet Fabian', 'Conexion google sheet', 'Conexión Google Sheet', 'CONEXIÓN GOOGLE SHEET FERNANDO', 'Demo WhatsApp', 'Integración googlesheet Imènec', and 'Proyecto ICS'. Below the list, it says 'Showing 11 of 11'. To the right, a form is being filled out for a new connection. The 'Type' is set to 'Google Sheet'. The 'Description' field contains 'AFJ CONEXIÓN GOOGLE SHEET'. The 'private\_key' field is marked with a red border and an error message: 'must have required property 'private\_key''. The 'client\_email' field is also marked with a red border and an error message: 'must have required property 'client\_email''. The 'client\_id' field is marked with a red border and an error message: 'must have required property 'client\_id''. The 'client\_x509\_cert\_url' field is marked with a red border and an error message: 'must have required property 'client\_x509\_cert\_url''. Below these, the 'auth\_uri' field contains 'https://accounts.google.com/o/oauth2/auth', 'token\_uri' contains 'https://oauth2.googleapis.com/token', and 'auth\_provider\_x509\_cert\_url' contains 'https://www.googleapis.com/oauth2/v1/certs'.

- **private\_key**
- **client\_email**
- **client\_id**
- **client\_x509\_cert\_url**
- ...and the other required fields.

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General

User Accounts

Business Calendar

Modules

Financial

**Auxiliary Catalogs**

Document Management

Transactions Log

Security

API Connections

Guest Portal

Account

Type

Connections

Description ↑

AFJ CONEXION GOOGLE SHEET Google Sheet

AFJ - Notificaciones 09.06.2025 WhatsApp

Conexion con GoogleSheet Fabian Google Sheet

Conexion google sheet Google Sheet

Conexión Google Sheet Google Sheet

CONEXIÓN GOOGLE SHEET FERNANDO Google Sheet

Demo WhatsApp WhatsApp

Integración googlesheet Imènec Google Sheet

Proyecto ICS Google Sheet

Showing 11 of 11

project\_id \*

private\_key\_id \*

private\_key \*

client\_email \*

client\_id \*

client\_id

client\_x509\_cert\_url \*

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

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 (Fracttal 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 > Fracttal Hub**.



Catalogs

Warehouses

Work Management

Monitoring

Dispatcher



Business Intelligence

Cloud Disk

Requests

Online help

[Support](#)   [Create ticket](#)

Type: **Connections**

Sort by: Description ↑

Filter by: Type

Showing 11 of 11

+ Create

<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"/>	Conexion 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 Imènec	Google Sheet (Service Account)
<input type="checkbox"/>	Proyecto LCS	Google Sheet (Service Account)

Click on the + icon to create a new flow.

Fracttal Hub

Search...

<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 (Range)	2023-03-22 17:51	Event
<input type="checkbox"/>	Yes	Consulta subtaeas Fracttal Fabian	2024-12-18 20:26	Manual
<input type="checkbox"/>	Yes	Proyecto 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 Fracttal One	2024-09-05 21:53	Event
<input type="checkbox"/>	Yes	BODEGAS FAC - MEDIDORES	2025-01-20 16:56	Manual

Showing 14 of 14



## Assign a name to the flow.

Fractal Hub

Enabled

① 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**

Source → Filter → Target

```
graph LR; Source[Source] --> Filter[Filter]; Filter --> Target[Target]
```

Source

Trigger

Source

Filter

Select One

Target

Connection

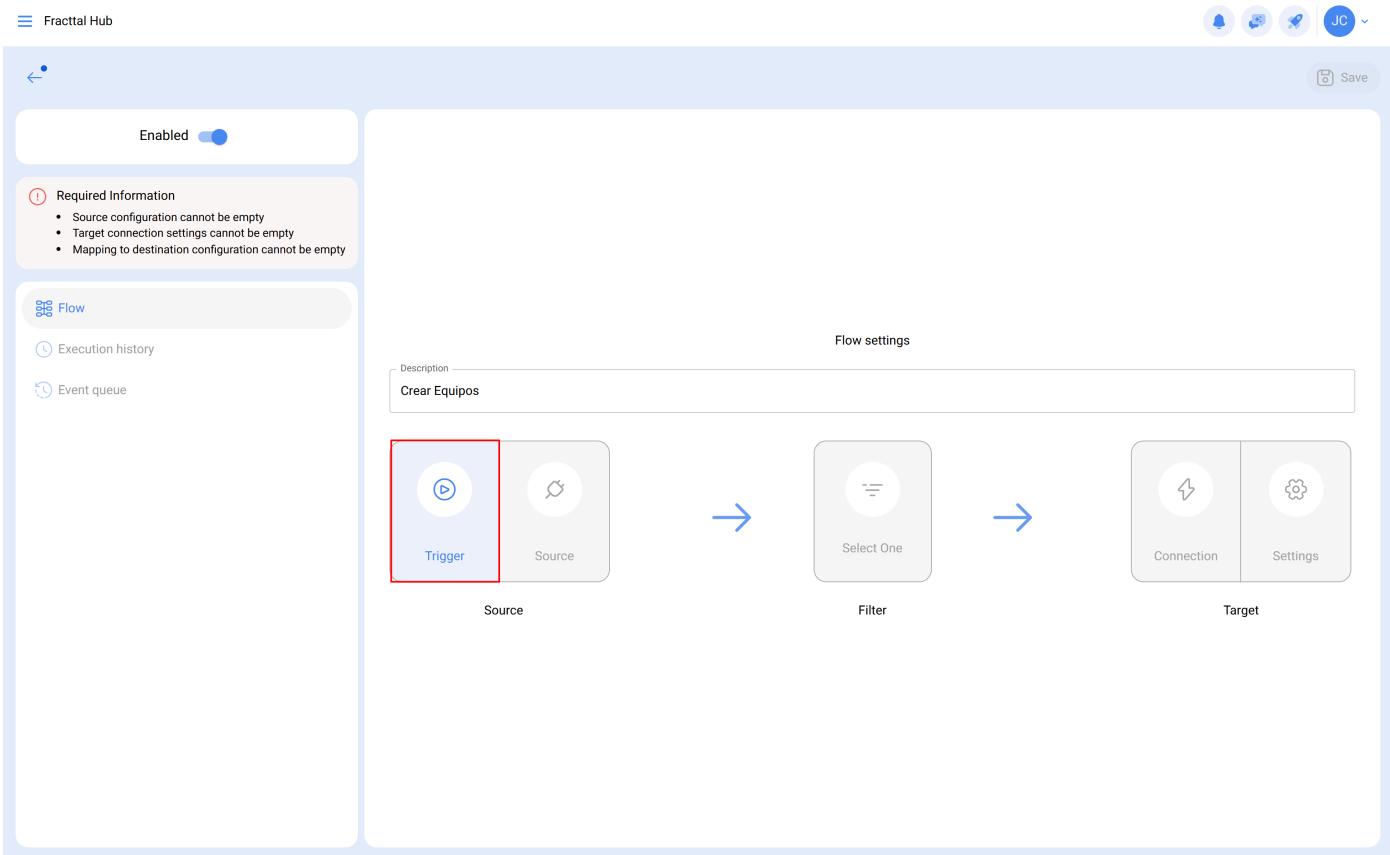
Settings

Save

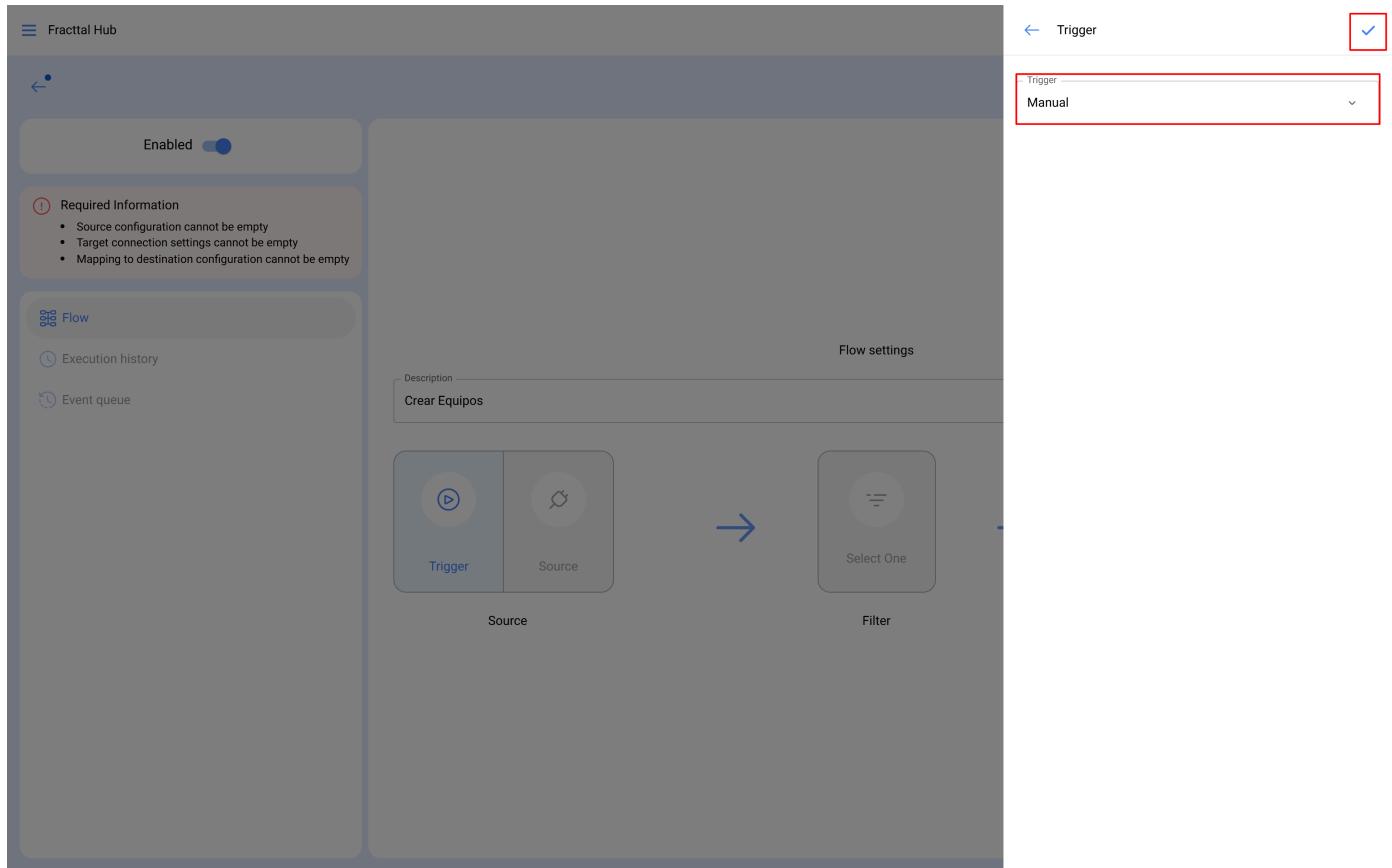
JC

## 4.1. Configure the Source

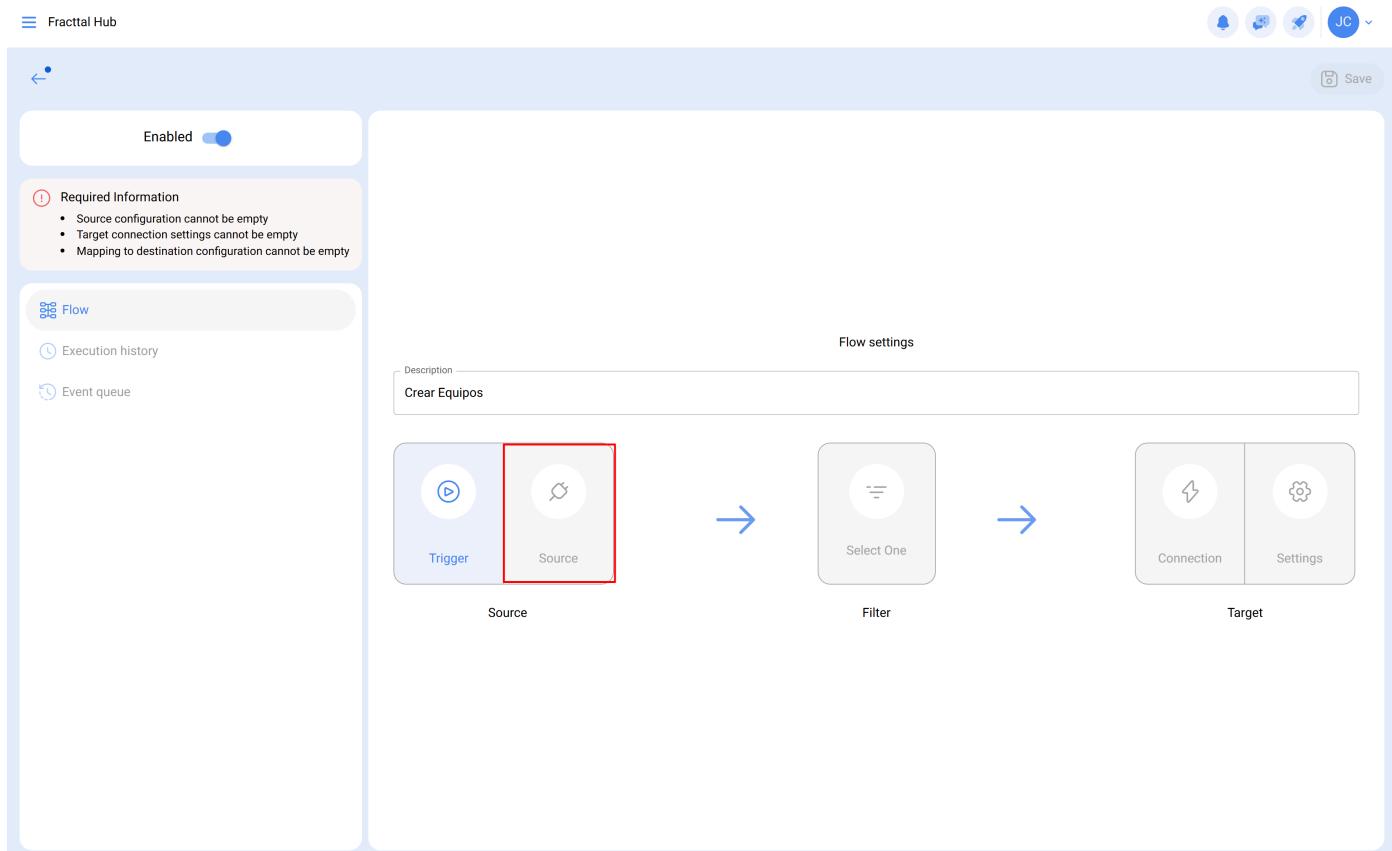
### Trigger



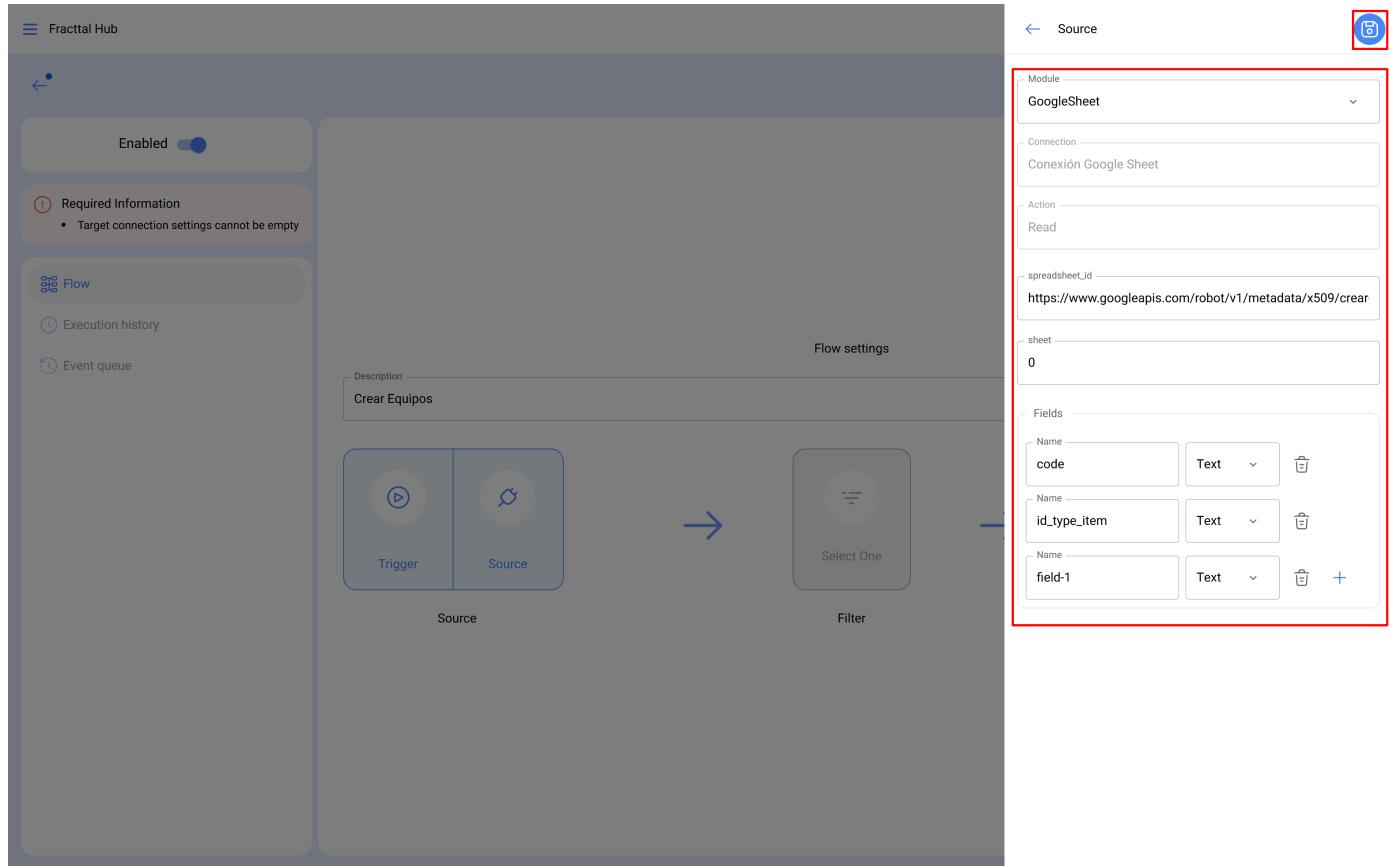
For this example, select **Manual**. This allows you to run the flow whenever you want.



## Source:

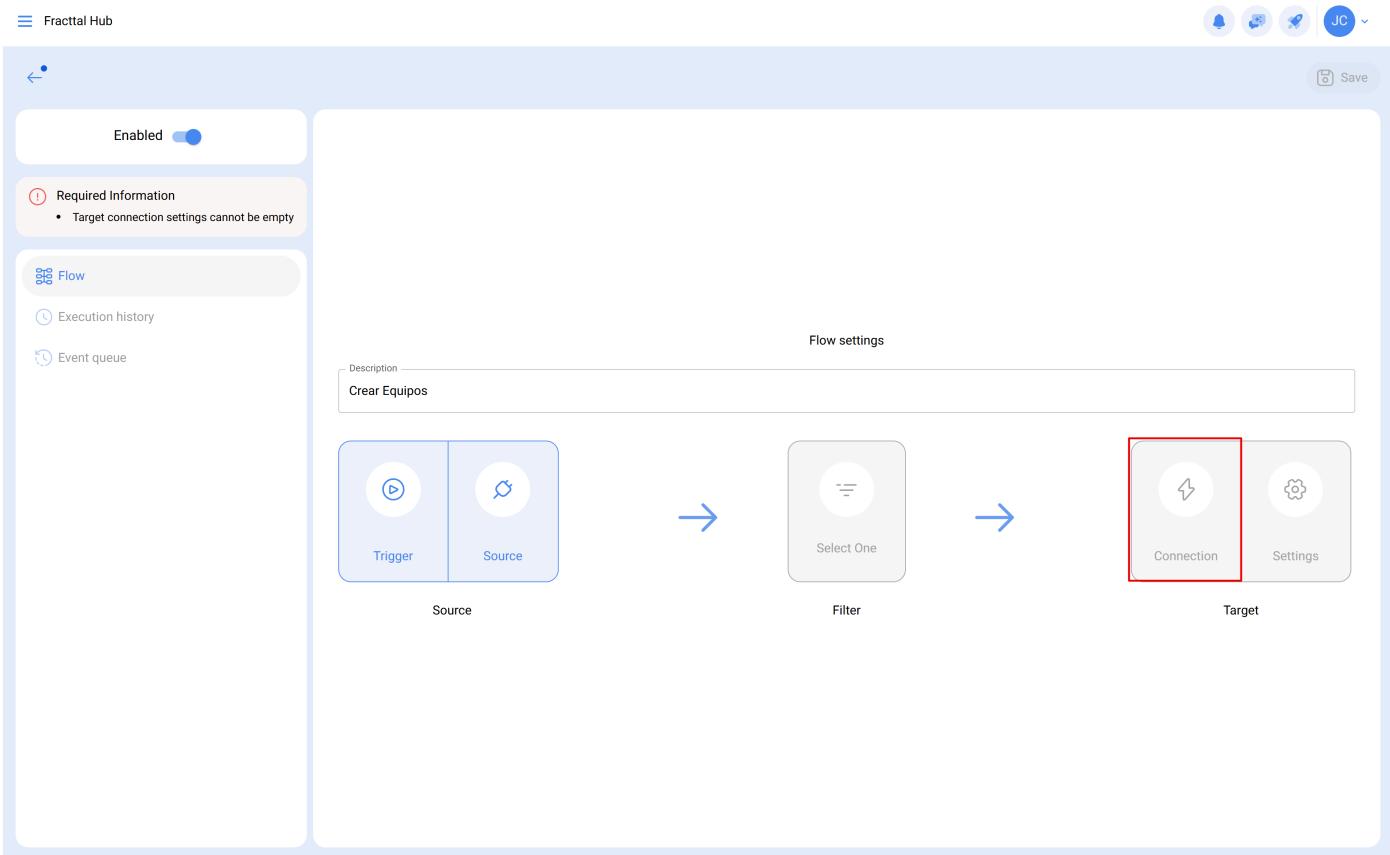


- **Module:** Select `GoogleSheet`.
- **Connection:** Select the connection created in Stage 3 (`CREATE EQUIPMENT`).
- **Action:** Select `Read`.
- **spreadsheet\_id:** Paste the ID of your sheet. You can find it in the URL (the long code between `/d/` and `/edit`).
- **sheet:** Enter `0` to read the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

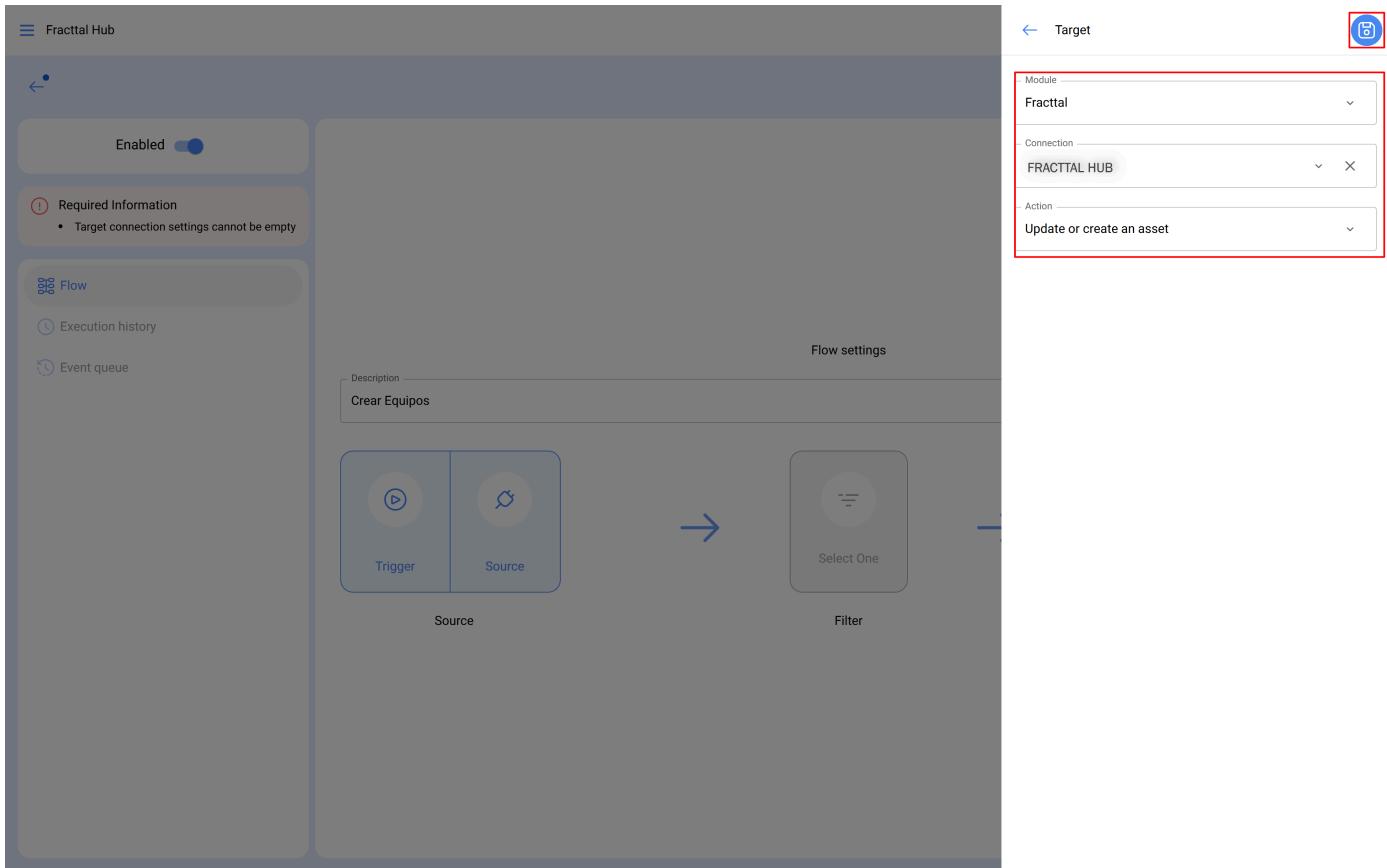


## 4.2. Configure the Destination

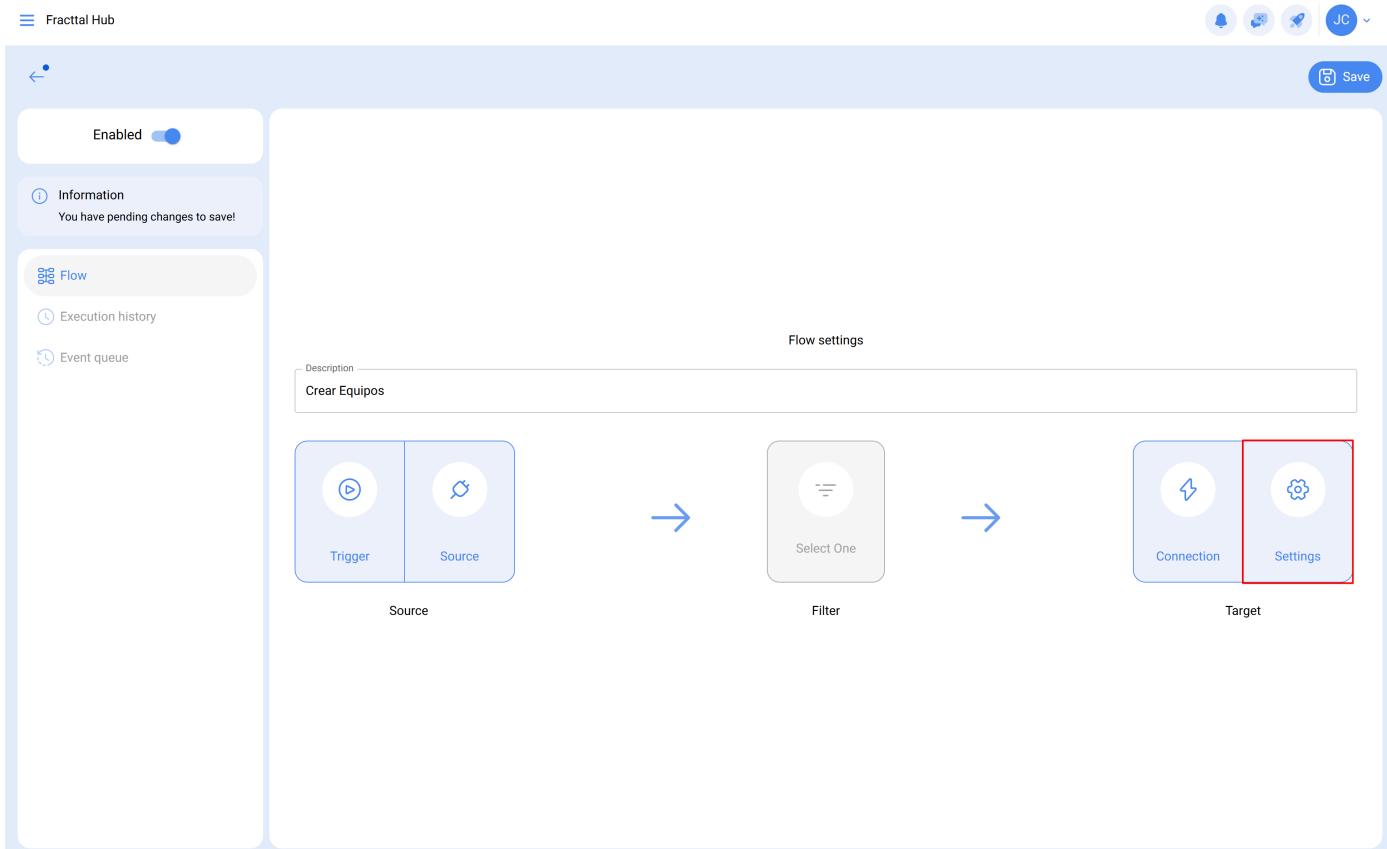
### Connection:



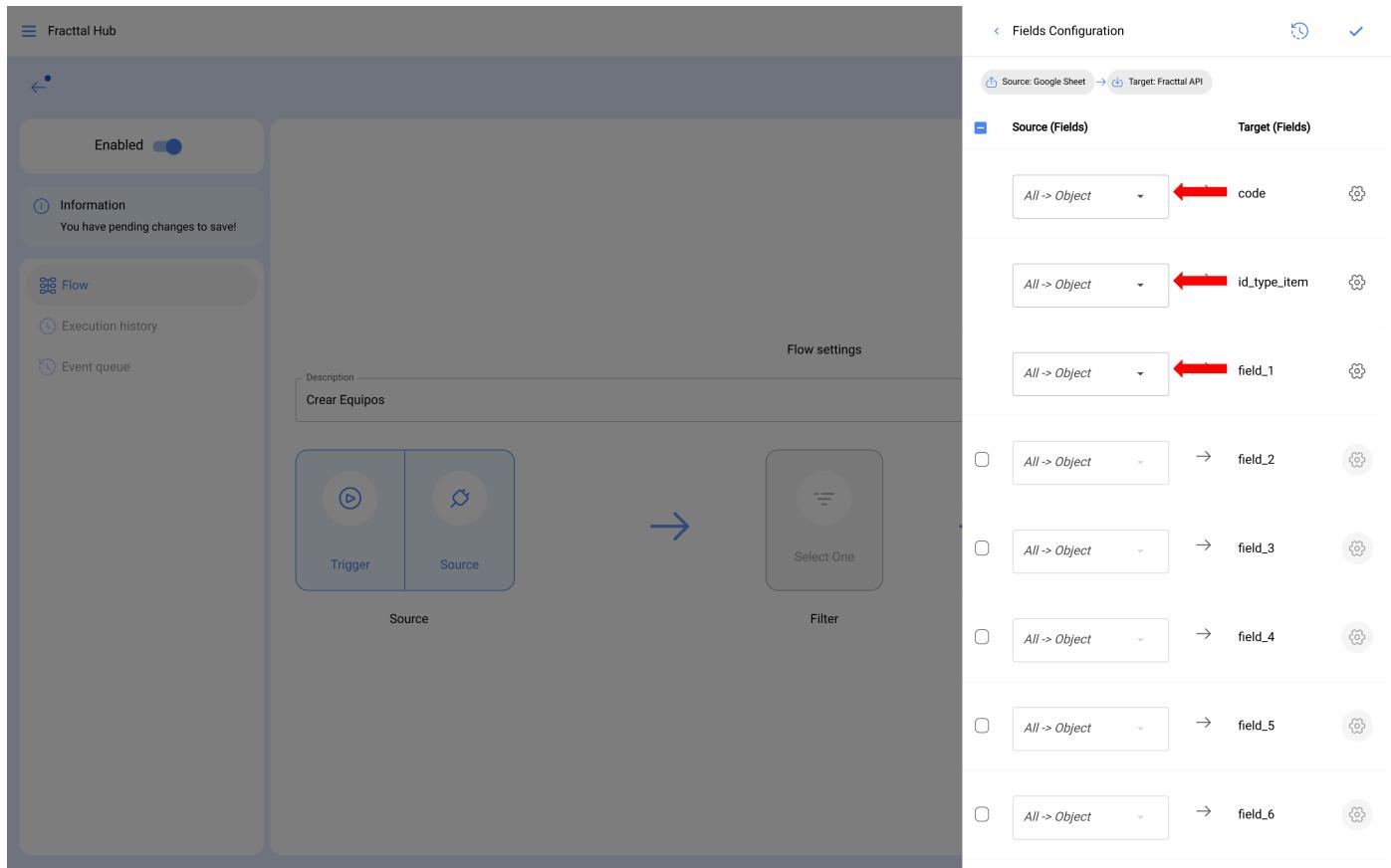
- **Module:** Select **Fractal**.
- **Connection:** Select **FRACTTAL HUB**.
- **Action:** Select **Update or create an asset**.



## Configuration

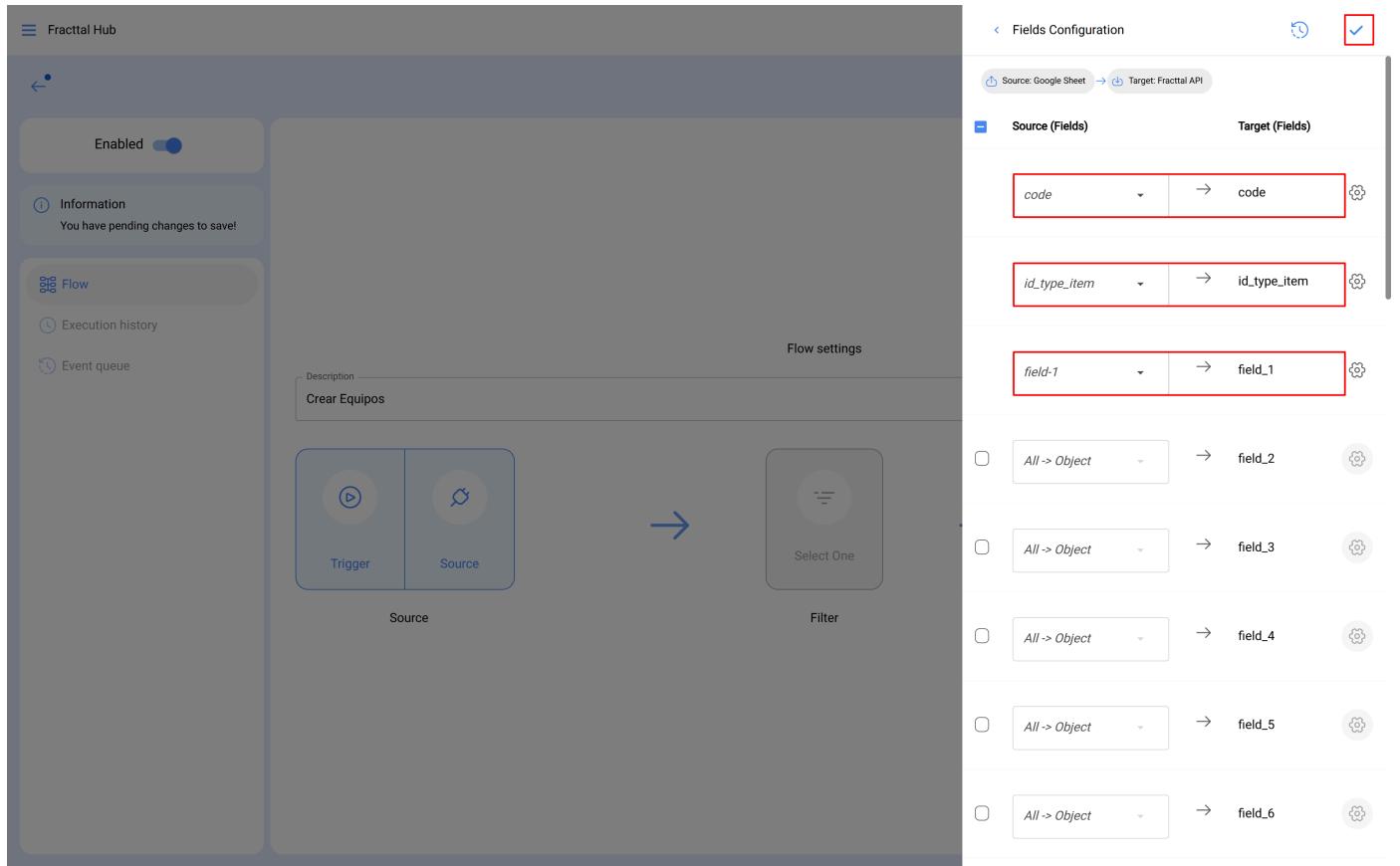


- Click on the gear icon (Settings).
- Map the source fields (Google Sheet) with the destination fields (Fracttal API), ensuring they match:



The screenshot shows the Fracttal Hub Fields Configuration interface. On the left, a dark sidebar displays 'Fracttal Hub' with a gear icon, 'Enabled' (switched on), 'Information' (pending save), 'Flow' (selected), 'Execution history', and 'Event queue'. The main area is titled 'Flow settings' with a description 'Crear Equipos'. It shows a flow diagram with a 'Trigger' (play icon) and a 'Source' (magnifying glass icon) block on the left, and a 'Select One' filter block on the right. A large blue arrow points from the Source block to the Filter block. On the right, the 'Fields Configuration' tab is active, showing 'Source: Google Sheet' and 'Target: Fracttal API'. The 'Source (Fields)' section lists 'All -> Object' for 'code', 'id\_type\_item', and 'field\_1'. The 'Target (Fields)' section lists 'field\_2', 'field\_3', 'field\_4', 'field\_5', and 'field\_6'. Red arrows point from the 'code', 'id\_type\_item', and 'field\_1' source fields to their corresponding target fields 'field\_2', 'field\_3', and 'field\_4' respectively.

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



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

