

¿Cómo crear un equipo usando Fracttal Hub? – Centro de Ayuda

 help.fracttal.com/hc/es-es/articles/37609623465229--Cómo-crear-un-equipo-usando-Fracttal-Hub

La integración con Fracttal Hub facilita la incorporación controlada de nuevos equipos a la plataforma, garantizando que los datos sigan una estructura estandarizada. Esta guía explica cómo configurar un flujo seguro para crear equipos en Fracttal One utilizando una hoja de cálculo como origen de datos.

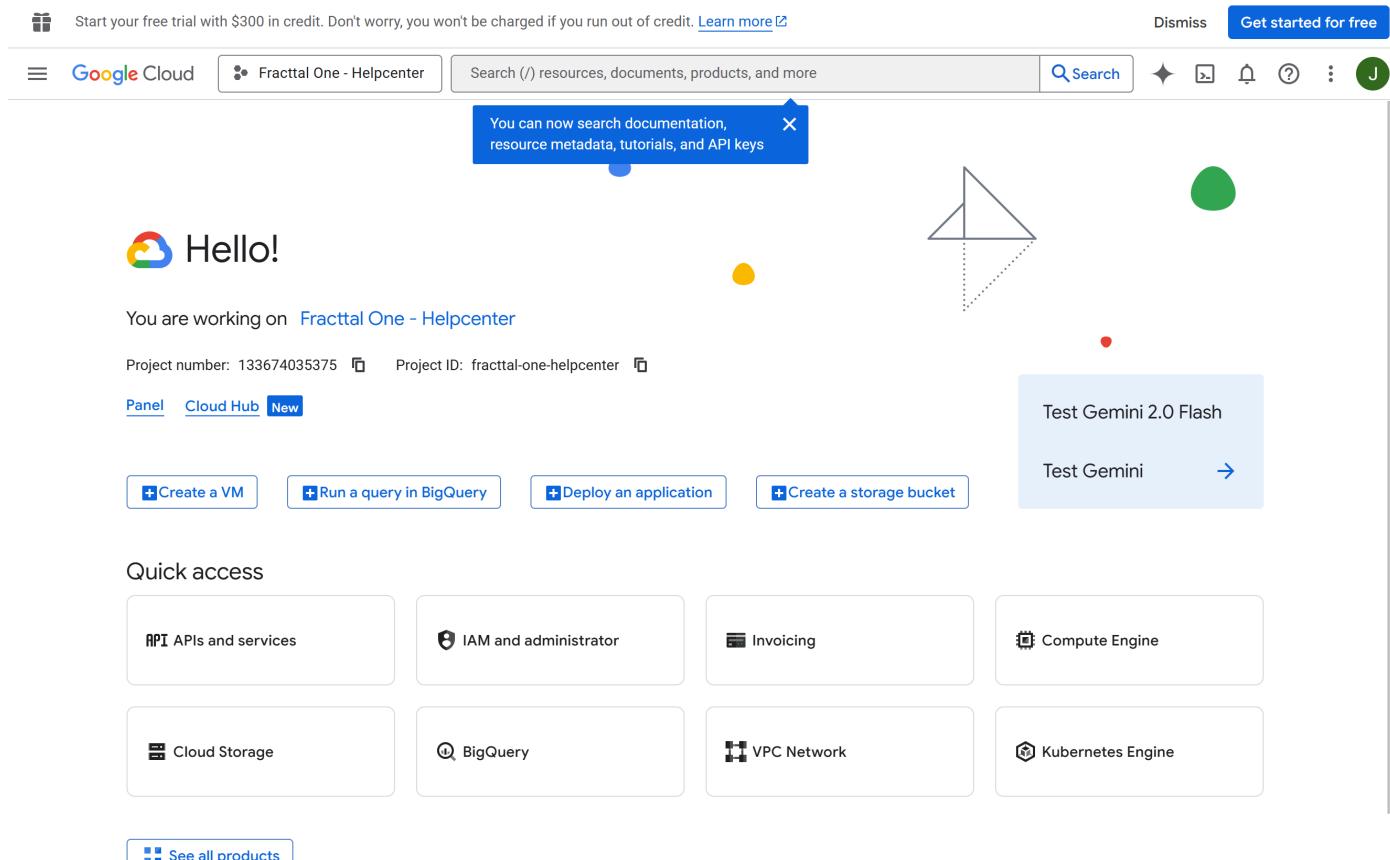
La conexión se establecerá utilizando una **Cuenta de Servicio** (Service Account) de Google Cloud Platform, que es el método recomendado para integraciones de servidor a servidor, garantizando seguridad y autonomía.

Etapa 1: Configuración en Google Cloud Platform (GCP)

El primer paso es crear las credenciales necesarias en la plataforma de Google para permitir que Fracttal One acceda a su hoja de forma segura.

1.1. Accede a la cuenta de servicio

Acceda a la Consola de Google Cloud Platform.



The screenshot shows the Google Cloud Platform (GCP) interface. At the top, there's a banner for a free trial with \$300 in credit. Below it is the navigation bar with 'Google Cloud' and 'Fracttal One - Helpcenter'. A search bar is present, along with a 'Search' button and other navigation icons. A prominent blue callout box in the center says 'You can now search documentation, resource metadata, tutorials, and API keys'. On the left, a 'Hello!' greeting and a 'Cloud Storage' icon are visible. The main area has a 'Quick access' section with links to various Google services: 'API APIs and services', 'IAM and administrator', 'Invoicing', 'Compute Engine', 'Cloud Storage', 'BigQuery', 'VPC Network', and 'Kubernetes Engine'. At the bottom, there's a 'See all products' button.

En el menú de navegación, vaya a **APIs y servicios > Credenciales**.

The screenshot shows the Google Cloud Platform (GCP) dashboard. At the top, there is a navigation bar with a 'Start your free trial with \$300 in credit. Don't worry, you won't be charged if you run out of credit. Learn more' button, a 'Dismiss' link, and a 'Get started for free' button. Below the navigation bar is the main dashboard header with the 'Google Cloud' logo, the project name 'Fracttal One - Helpcenter', a search bar, and various navigation icons.

A prominent callout box in the center of the dashboard says: 'You can now search documentation, resource metadata, tutorials, and API keys'. To the right of the search bar is a decorative graphic of colored dots and triangles.

The dashboard features several sections:

- Panel:** Shows the project number (133674035375) and ID (fracttal-one-helpcenter).
- Cloud Hub:** Shows buttons for '+Create a VM', '+Run a query in BigQuery', '+Deploy an application', and '+Create a storage bucket'.
- New:** Shows a card for 'Test Gemini 2.0 Flash' and another for 'Test Gemini' with a right-pointing arrow.
- Quick access:** A grid of links to various GCP services. The first link, 'API APIs and services', is highlighted with a red box.
- See all products:** A button at the bottom left of the quick access grid.

Haga clic en **+ CREAR CREDENCIALES** y seleccione la opción **Cuenta de servicio**.

The screenshot shows the Google Cloud API Credentials page. On the left sidebar, 'Credentials' is selected. In the main area, a dropdown menu under '+ Create credentials' has 'Service account' selected, highlighted with a red box. A tooltip for 'Service account' is visible, stating: 'Uses bot accounts to enable app-level authentication between servers.' Below this, sections for 'OAuth 2.0 Client IDs' and 'Service accounts' are shown, both with no items to display. A modal at the bottom displays the message: 'Displaying project "Fractal One - Helpcenter" in organization "No organization"' with a close button.

Complete los siguientes campos:

- **Nombre de la cuenta de servicio:** Asigne un nombre descriptivo.
- **ID de la cuenta de servicio:** Generalmente se genera automáticamente a partir del nombre.

The screenshot shows the Google Cloud IAM service account creation process. On the left, a sidebar menu is open with various options like IAM, PAM, Main access limit, Organizations, Identity and organization, Policy Problem Solver, Policy Analyzer, Organization policies, and Service accounts. The 'Service accounts' option is highlighted with a red border. The main area is titled 'Create service account' and contains three numbered steps: 1. Create service account, 2. Permissions(optional), and 3. Main with access(optional). Step 1 has fields for 'Service Account Name' (set to 'Crear Equipos'), 'Display name for this service account', 'Service Account ID' (set to 'crear-equipos-773'), and 'Email Address' (<id>@fracttal-one-helpcenter.iam.gserviceaccount.com). Step 1 also includes a 'Service Account Description' field and a 'Create and continue' button. Step 2 and Step 3 are currently collapsed. At the bottom of the main area are 'Conclude' and 'Cancel' buttons.

Haz clic en "Listo" para finalizar la creación de la credencial.

Una vez creada, será necesario habilitarla para que pueda ser utilizada en los procesos de integración.

1.2. Generar la Clave de Acceso (JSON)

- En la pantalla de **Credenciales**, ubique la cuenta de servicio recién creada y haga clic en su dirección de correo electrónico.
- Vaya a la pestaña **CLAVES**.
- Haga clic en **AGREGAR CLAVE** y seleccione **Crear clave nueva**.

Start your free trial with \$300 in credit. Don't worry, you won't be charged if you run out of credit. [Learn more](#)

Dismiss Get started for free

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

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 Upload a current key 78df830c67e266e185b2a202caeaa908b7a57cc47 1 de jul. de 2025 31 de dez. de 9999

Elija el tipo **JSON** (recomendado) y haga clic en **CREAR**.

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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 78df830c67e266e185b2a202caeaa908b7a57cc47 1 de jul. de 2025 31 de dez. de 9999

Se descargará automáticamente un archivo `.json` en su equipo. Guárdelo en un lugar seguro, ya que contiene las credenciales de acceso y será necesario en la Etapa 3.

Etapa 2: Preparación de la hoja de Google Sheets

Ahora prepararemos la hoja que servirá como fuente de datos.

Abra su hoja de Google Sheets.

Estructura de los encabezados:

En la primera fila, asegúrese de que los nombres de las columnas coincidan exactamente con los parámetros requeridos por la API de Fracttal para la creación de activos. Los campos obligatorios son:

- `code`: Código único del activo.
- `id_type_item`: ID numérico del tipo de activo (por ejemplo: `2` para Equipos, según la documentación de la API).
- `field_1`: Corresponde al **Nombre** del activo.

code	id_type_item	field_1
HUB-001	2	CAMIONETA SUV

Compartir la hoja:

Es crucial otorgar permiso de acceso a la Cuenta de Servicio que creamos.

En GCP, copie el correo electrónico de su cuenta de servicio.

Start your free trial with \$300 in credit. Don't worry, you won't be charged if you run out of credit. [Learn more](#)

Dismiss Get started for free

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

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

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

Service Account Details

Name: Crear Equipos Save

Description Save

E-mail: **crear-equipos@fracttal-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

- Vuelva a la hoja de cálculo, haga clic en **Compartir**.
- Pegue el correo en el campo de compartir.
- Asigne el permiso de **Editor**.
- Haga clic en **Enviar/Compartir**.

F 2

Return to the spreadsheet, click Share

Share

Share with people and groups

crear-equipos@fracttalonehelpcenter.iam.gserviceaccount.com

Restricted • Only people added can open with this link

Assign the Editor permission

Editor

Send

Etapa 3: Configuración de la conexión en Fracttal One

Con las credenciales y la hoja listas, configuraremos el puente de comunicación dentro de Fracttal One.

En Fracttal One, navegue a **Configuración > Catálogos Auxiliares**.

The screenshot shows the Fracttal One interface for managing auxiliary catalogs. On the left, a sidebar lists various modules: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (which is highlighted with a red box), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. At the top right, there are icons for notifications, messages, rocket launch, and a dropdown menu labeled 'JC'. The main content area is titled 'Activación Fracttal - Español - 477'. It shows a table with the following data:

Type	Failure Types	Failure Causes	Fault Detection
Catalogue of Failures	00-ELECTRICA Alta temperatura ar não gela Atascamiento Batería con voltaje bajo CALENTAMIENTO DE MOTOR CAVITATION COMPRESOR		

At the bottom of the table, it says 'Showing 50 of 76'. There is a blue '+' button in the bottom right corner of the table area.

- En el selector de catálogos, elija **Conexiones**.
- Haga clic en el ícono + para agregar una nueva conexión.

Activación Fractal - Español - 477

 Save

- [!\[\]\(5faadb6bbdaa2c3e54fc30665f67b120_img.jpg\) General](#)
- [!\[\]\(e484f5316fa791f64732412ebce7cfe9_img.jpg\) User Accounts](#)
- [!\[\]\(87d31314ee2dcbc63109a779b549d8f2_img.jpg\) Business Calendar](#)
- [!\[\]\(971a02f0930d279f64d469b3a7788c9b_img.jpg\) Modules](#)
- [!\[\]\(5a87ce47a12b05dfe1a78efb145720b6_img.jpg\) Financial](#)
- [!\[\]\(e999bf00dbb6868fd73476e6c0d0a0a8_img.jpg\) Auxiliary Catalogs](#)
- [!\[\]\(939e15c1fc4fd0e97a778006fade5a6a_img.jpg\) Document Management](#)
- [!\[\]\(9ce4c49bbad0c50e61e4b2627ec69748_img.jpg\) Transactions Log](#)
- [!\[\]\(2f630aeb13b2d28640e746bb9ef50368_img.jpg\) Security](#)
- [!\[\]\(99368e338615665bd66b454be2e1432b_img.jpg\) API Connections](#)
- [!\[\]\(6dd3680b7598fa6c8be9eff045d599e5_img.jpg\) Guest Portal](#)
- [!\[\]\(41df055f868a67c504dcf81c3f085889_img.jpg\) Account](#)

Type

 Connections





	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 los siguientes campos:

- [!\[\]\(a102f2b88b95d9a0e36e8ef4ab68d439_img.jpg\) General](#)
- [!\[\]\(2951981d608b86da3998156399760af1_img.jpg\) User Accounts](#)
- [!\[\]\(d6e4e6c76e585da57bcc2b77dae37849_img.jpg\) Business Calendar](#)
- [!\[\]\(5499db4aa1fb16ac39f198aefe03a5df_img.jpg\) Modules](#)
- [!\[\]\(89b5e1a7fce5965a69d7ae23d913cfa5_img.jpg\) Financial](#)
- [!\[\]\(3ba34f3502bf70ff4717c840b9888849_img.jpg\) Auxiliary Catalogs](#)
- [!\[\]\(286353924ba0cdd7283da10a42e064dc_img.jpg\) Document Management](#)
- [!\[\]\(8f77c27a727bb9faff56d575989f9ff5_img.jpg\) Transactions Log](#)
- [!\[\]\(747fb65d6231f4671232b95cc1e15c6e_img.jpg\) Security](#)
- [!\[\]\(24c398135301469a8bae7ac010792adc_img.jpg\) API Connections](#)
- [!\[\]\(624d7ce8b2f147e8c42acae7361f3408_img.jpg\) Guest Portal](#)
- [!\[\]\(89a60fba17257fb97c7505f6fb719914_img.jpg\) Account](#)

Type

 Connections





	Type	
<input type="checkbox"/>	Google Sheet (Service Account)	
	Description	Crear Equipos
	Type	service_account
	project_id*	
	private_key_id*
	private_key*	must have required property 'private_key'
	client_email*	must have required property 'client_email'
	client_id*	must have required property 'client_id'

- **Tipo:** Seleccione **Google Sheet (Service Account)**.
- **Descripción:** Ingrese un nombre claro para esta conexión, por ejemplo, **CREAR EQUIPOS**.

Completa las credenciales:

Abra el archivo **.json** descargado en la Etapa **1.2** y copie y pegue el contenido de cada campo en el formulario de Fractal One:

The screenshot shows the Fractal One settings interface. On the left, there's a sidebar with various modules like 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 is titled 'Connections' and lists several existing 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', 'Integración googlesheet Imènec', and 'Proyecto ICS'. Below the list, it says 'Showing 11 of 11'. On the right, a detailed configuration form is open for a connection. It has fields for 'private_key*', 'client_email*', 'client_id*', and 'client_x509_cert_url*'. Below these, there are fields for 'auth_uri' (set to 'https://accounts.google.com/o/oauth2/auth'), 'token_uri' (set to 'https://oauth2.googleapis.com/token'), and 'auth_provider_x509_cert_url' (set to 'https://www.googleapis.com/oauth2/v1/certs'). The 'client_email*' and 'client_id*' fields are highlighted with a red border, indicating they are required.

- **private_key**
- **client_email**
- **client_id**
- **client_x509_cert_url**
- ...y los demás campos requeridos.

The screenshot shows the Fracttal software interface. On the left, there's a sidebar with various settings and modules like 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 is titled "Connections" under "Type". It lists several connections, each with a checkbox and a description:

- 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
- Integración googlesheet Imènec
- Proyecto ICS

Below the list, it says "Showing 11 of 11".

To the right, a detailed configuration form is shown, enclosed in a red box. The fields include:

- project_id*
- private_key_id*
- private_key*
- client_email*
- client_id*
- client_id
- client_x509_cert_url*
- auth_uri
- token_uri
- auth_provider_x509_cert_url

The "client_x509_cert_url" field contains the value: <https://www.googleapis.com/robot/v1/metadata/x509/crear-equipo@fracttal-one-helpcenter.iam.gserviceaccount.com>

Haga clic en **Guardar**.

Etapa 4: Crear el flujo en el Automatizador (Fracttal Hub)

Finalmente, crearemos el flujo de automatización que leerá los datos y creará los activos.

Vaya al menú principal y seleccione **Automatizador > Fracttal Hub**.



Version: 5.1.03

Start

Catalogs

Warehouses

Work Management

Monitoring

Dispatcher ←

Events

Fracttal Hub

Business Intelligence

Cloud Disk

Requests

Online help

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 LCS	Google Sheet (Service Account)

Haga clic en el ícono + para crear un nuevo flujo.

Fracttal Hub

Search...

	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	Projeto 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

Asigne un nombre al flujo.

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

Description
Crear Equipos

Flow settings

Trigger

Source

Select One

Connection

Settings

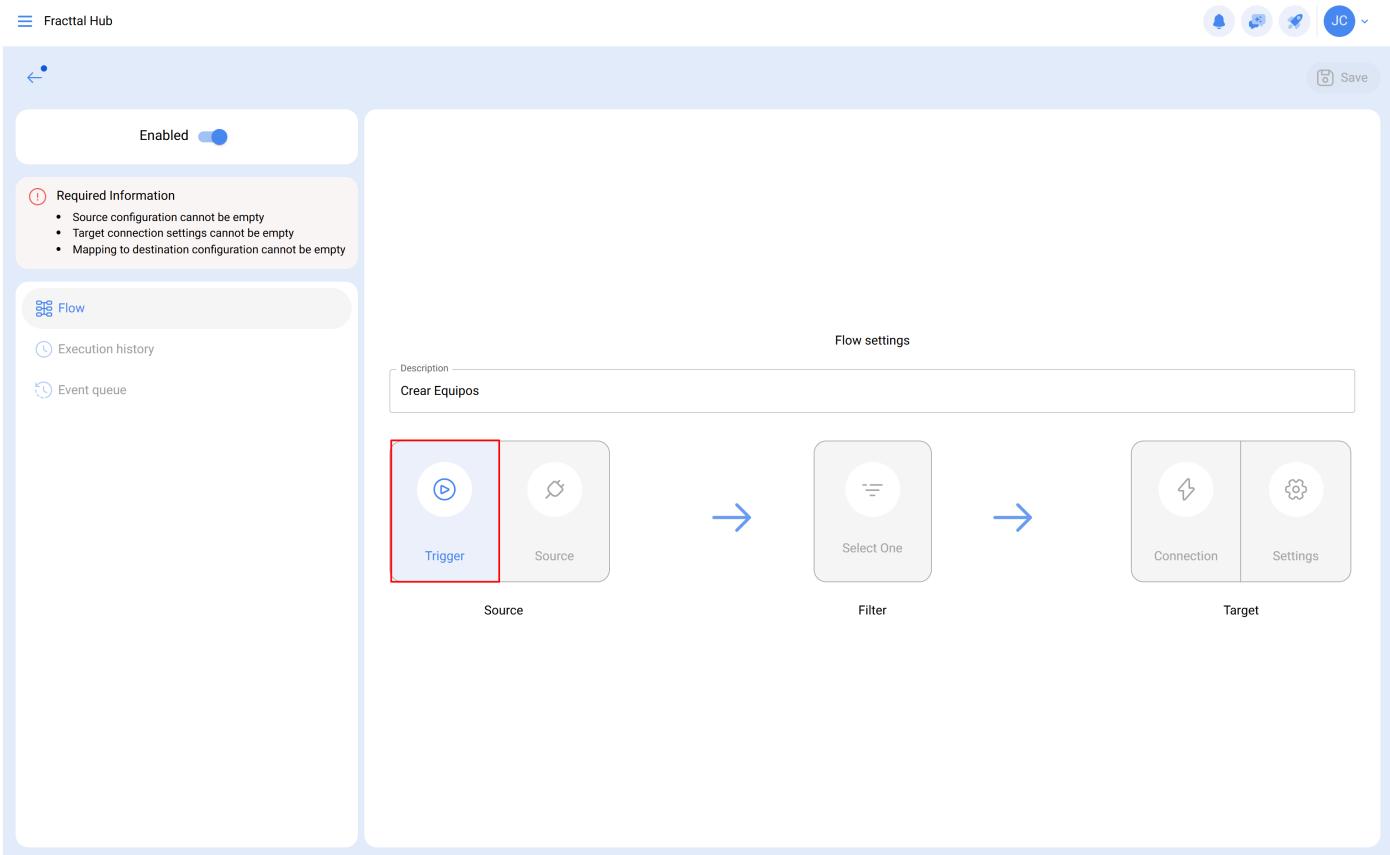
Source

Filter

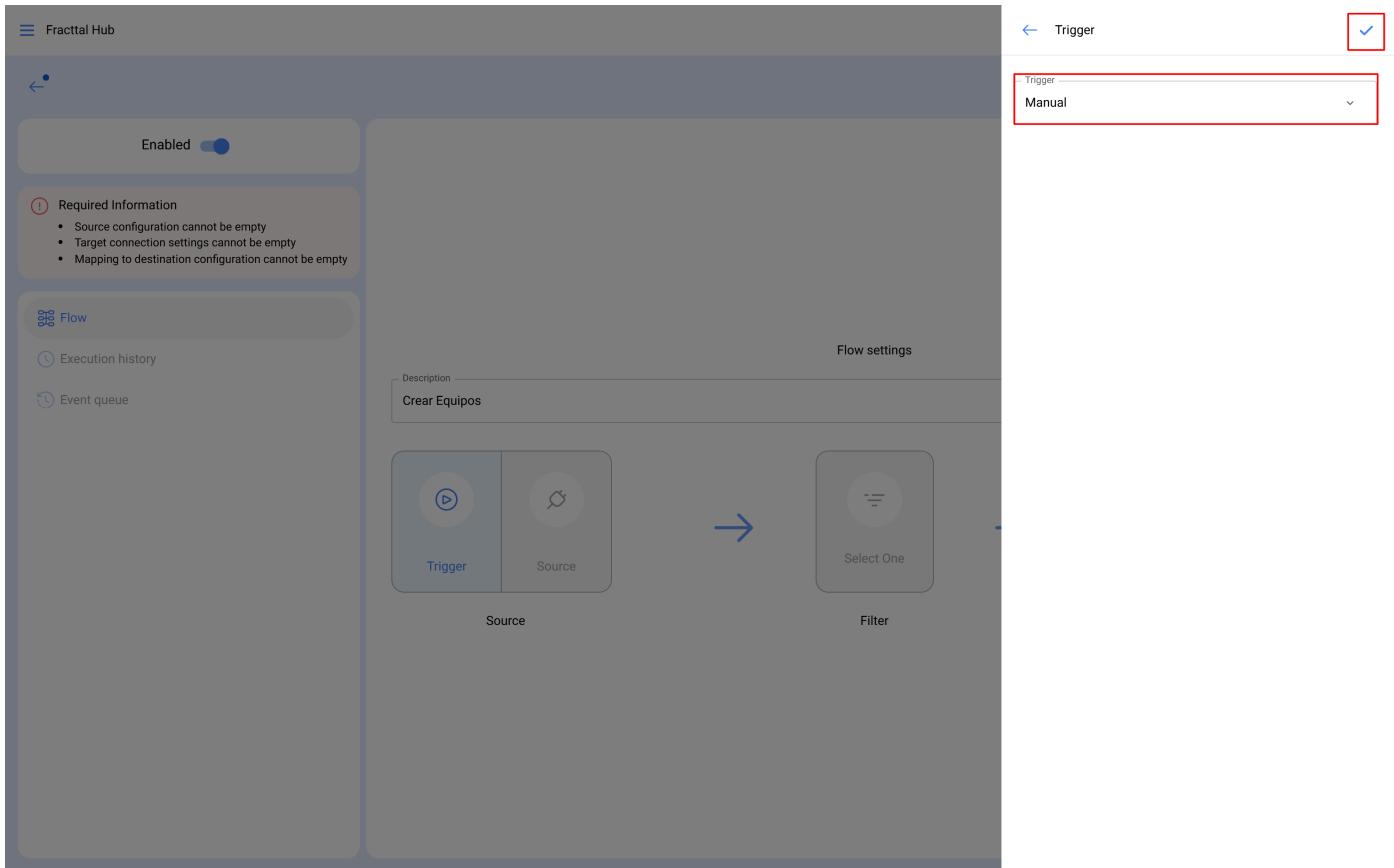
Target

4.1. Configurar la Fuente (Source)

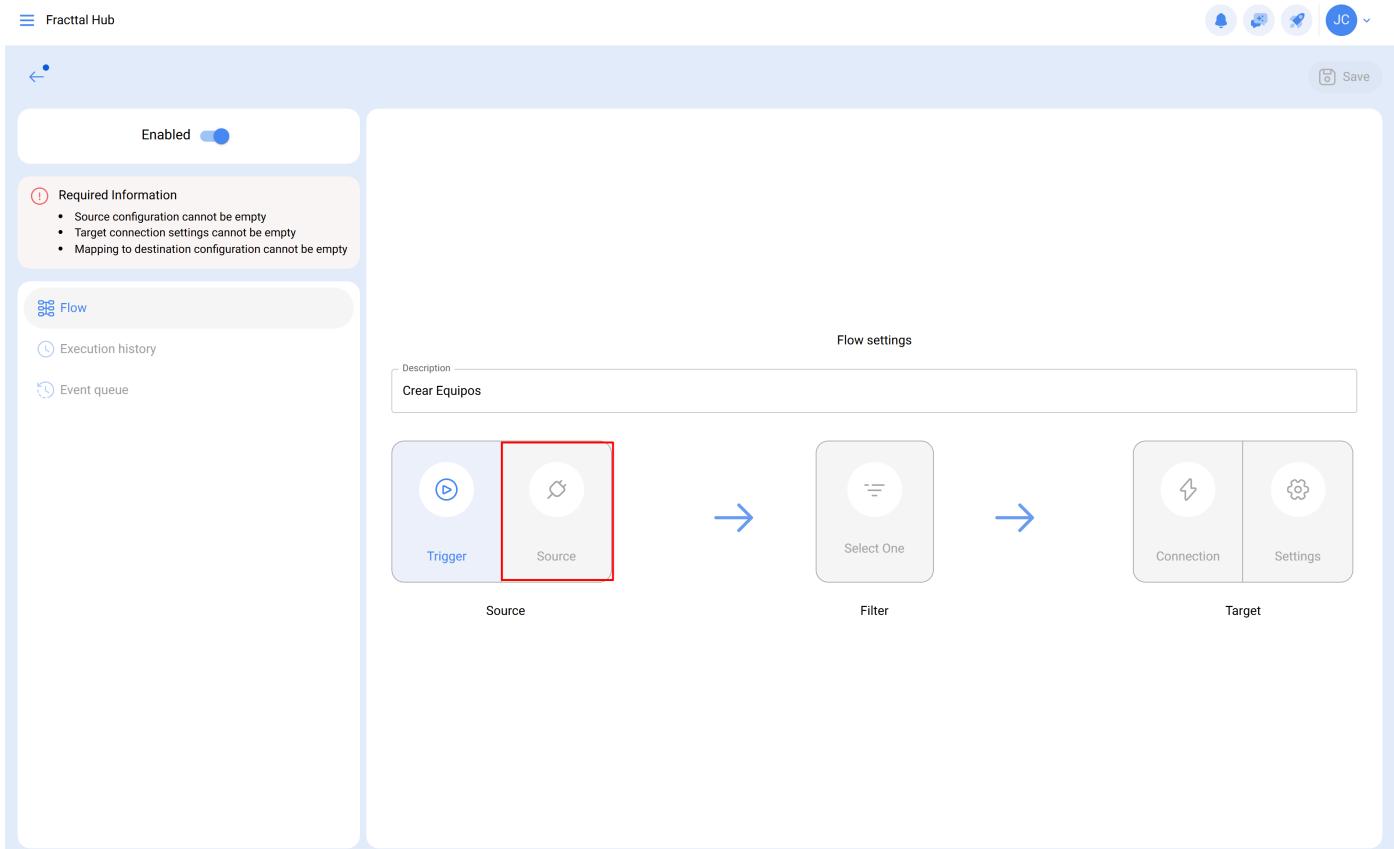
Activador



Para este ejemplo, seleccione **Manual**. Esto le permite ejecutar el flujo cuando lo desee.



Fuente:



- **Módulo:** Seleccione **GoogleSheet**.
- **Conexión:** Seleccione la conexión creada en la Etapa 3 (**CREAR EQUIPOS**).
- **Acción:** Seleccione **Leer**.
- **spreadsheet_id:** Pegue el ID de su hoja. Lo puede encontrar en la URL (el código largo entre `/d/` y `/edit`).
- **sheet:** Ingrese `0` para leer la primera pestaña (la numeración comienza en 0).
- **Campos:** Agregue los nombres de los encabezados de su hoja (**code**, **id_type_item**, **field_1**).

The screenshot shows the Fractal Hub interface with a flow configuration for a 'Create Equipos' process.

Flow Settings:

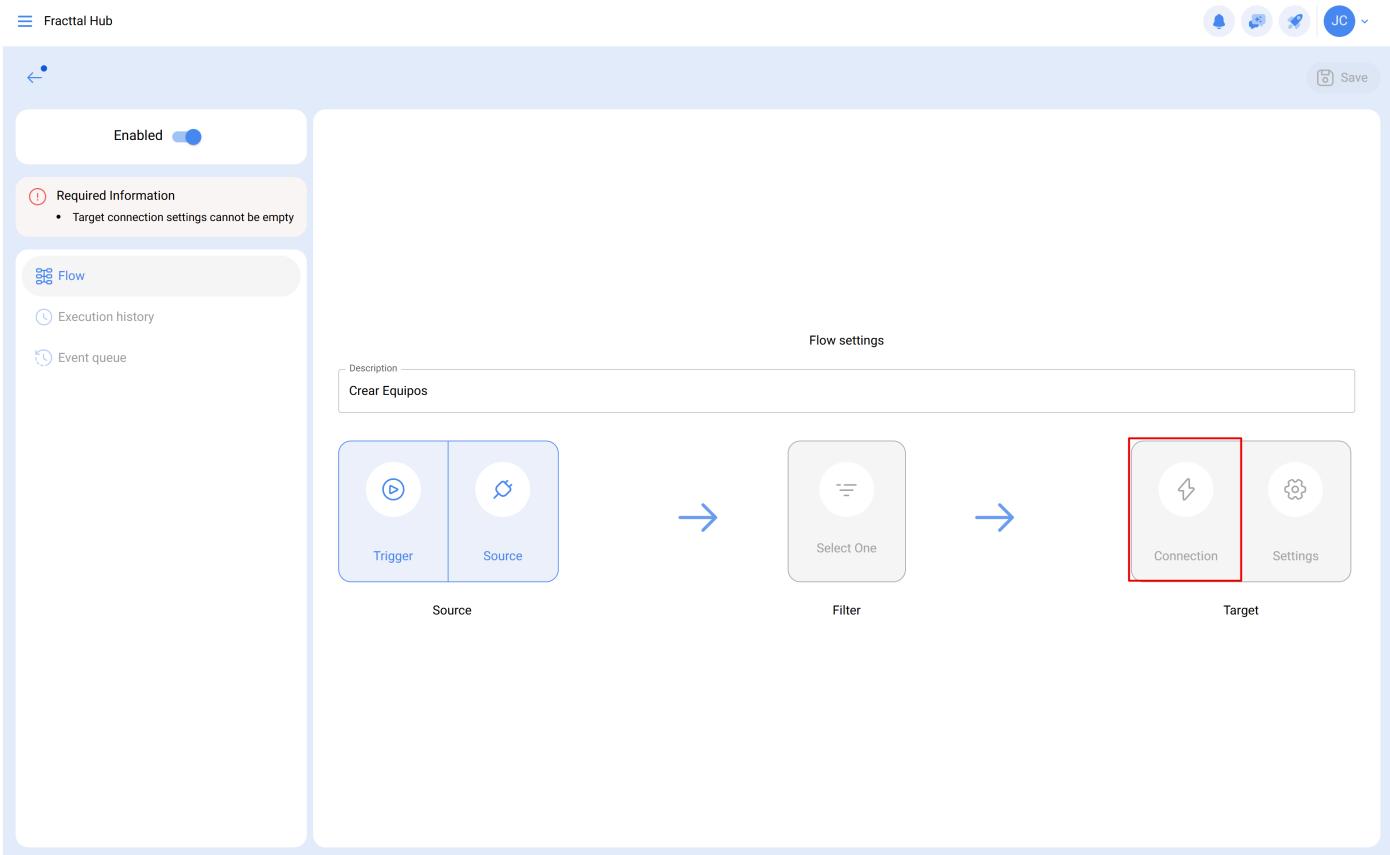
- Description:** Crear Equipos
- Trigger:** Trigger (represented by a play button icon)
- Source:** Source (represented by a circular icon with a refresh symbol)
- Filter:** Select One (represented by a circular icon with a minus sign)

Source Configuration (Module: GoogleSheet):

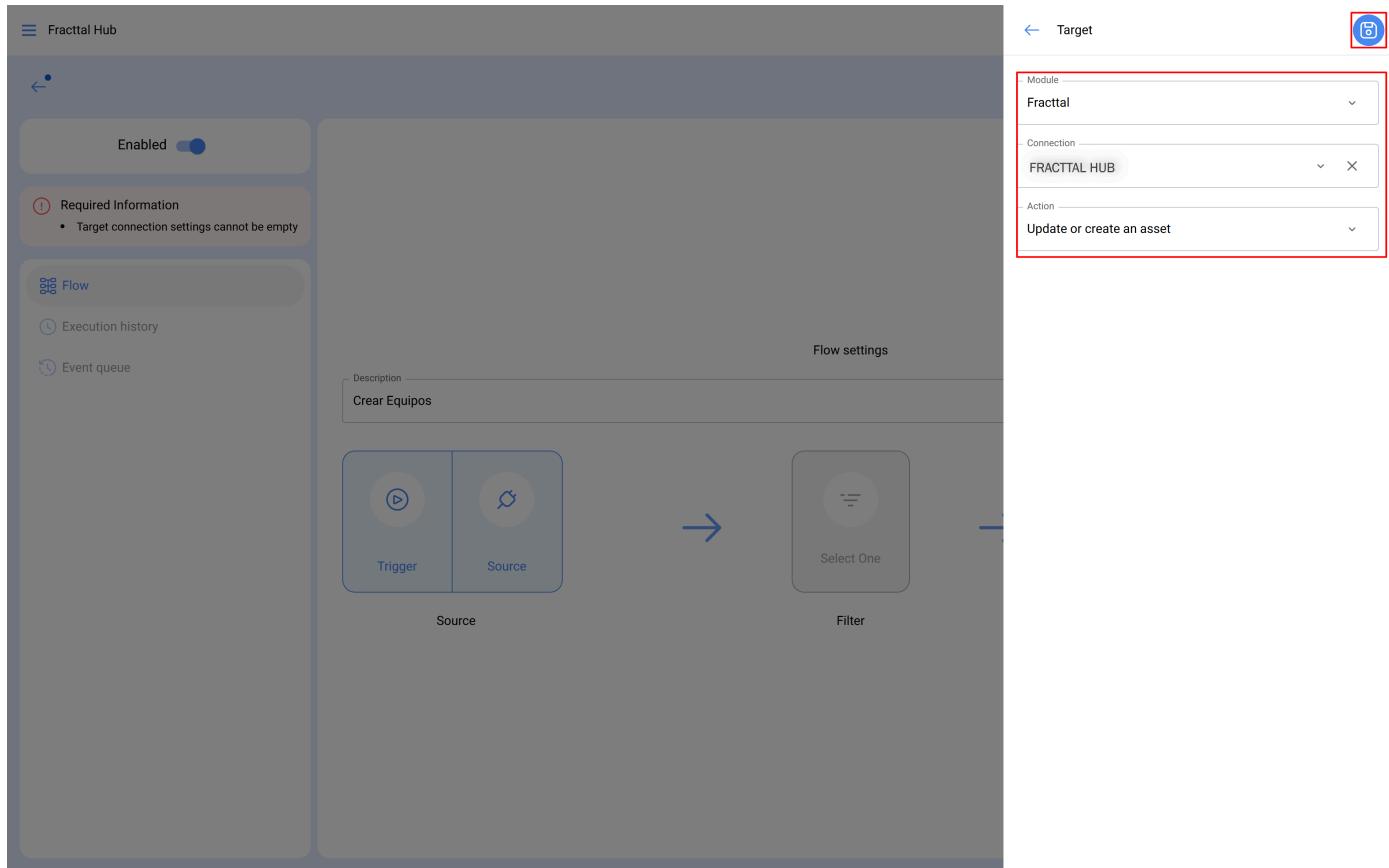
- Module:** GoogleSheet
- Connection:** Conexión Google Sheet
- Action:** Read
- spreadsheet_id:** https://www.googleapis.com/robot/v1/metadata/x509/crear
- sheet:** 0
- Fields:**
 - Name: code, Type: Text
 - Name: id_type_item, Type: Text
 - Name: field-1, Type: Text

4.2. Configurar el Destino (Destination)

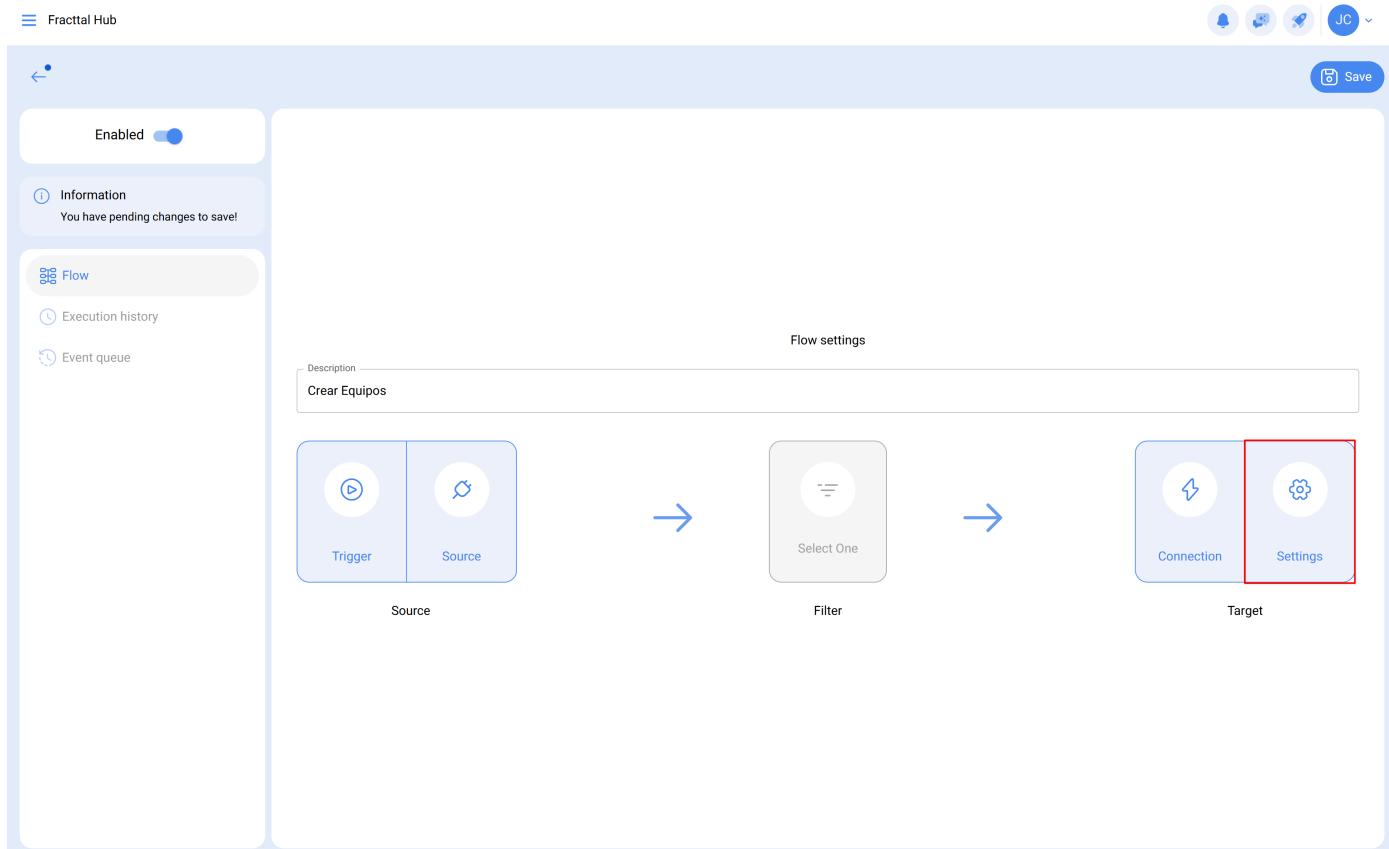
Conexión:



- **Módulo:** Seleccione **Fractal**.
- **Conexión:** Seleccione **FRACTTAL HUB**.
- **Acción:** Seleccione **Actualizar o crear un activo**.



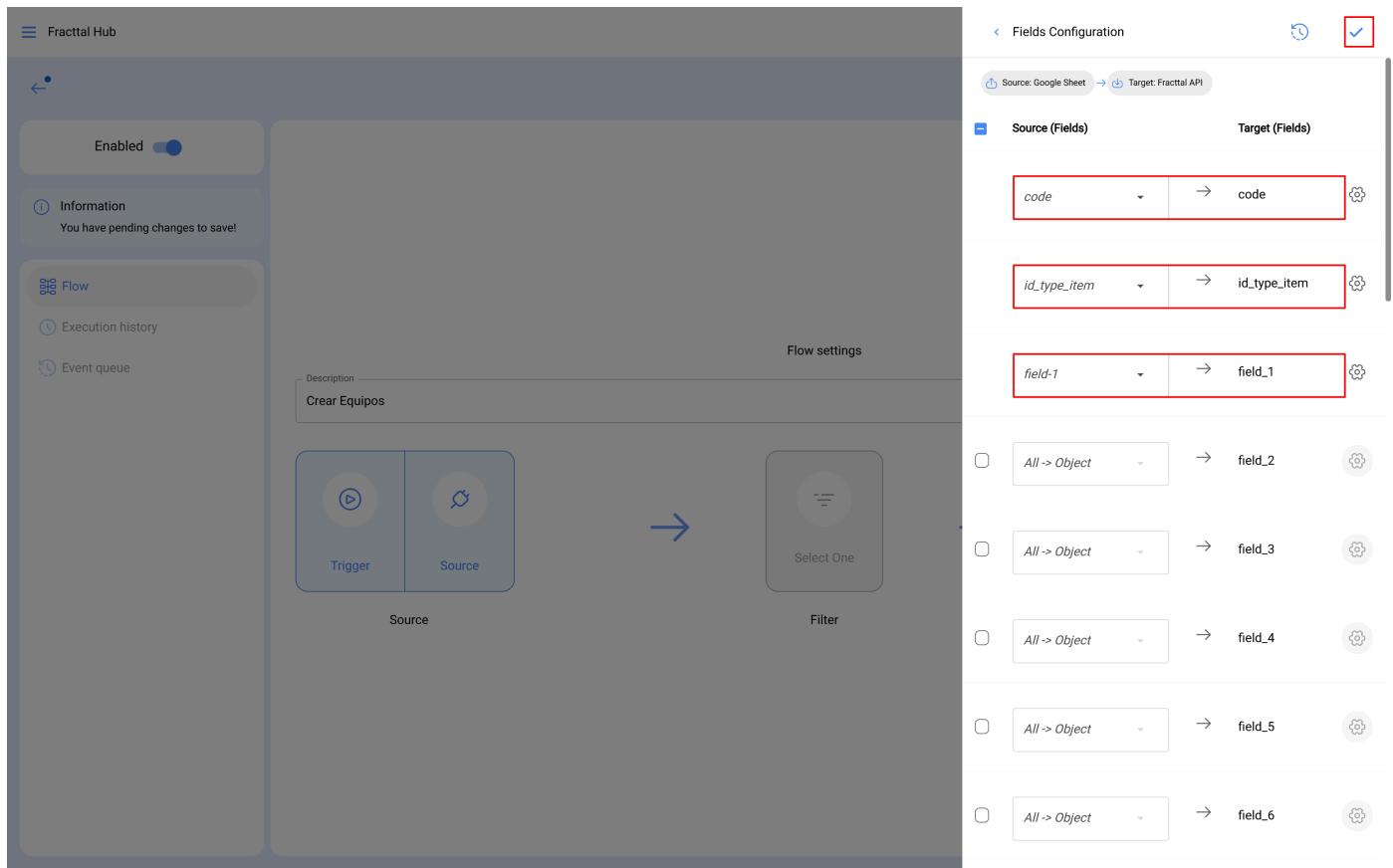
Configuración



- Haga clic en el ícono de engranaje (Configuración).
- Mapee los campos de origen (Google Sheet) con los de destino (API de Fracttal), asegurándose de que coincidan:

The screenshot shows the Fracttal Hub Fields Configuration interface. On the left, there's a sidebar with 'Enabled' (switched on), 'Information' (pending save), 'Flow' (selected), 'Execution history', and 'Event queue'. The main area has a 'Flow settings' header and a 'Description' field containing 'Crear Equipos'. Below this, there are two columns: 'Source' and 'Filter'. The 'Source' column contains a 'Trigger' icon and a 'Source' icon. An arrow points from the 'Source' column to the 'Filter' column, which contains a 'Select One' icon. To the right of the 'Filter' column is a 'Fields Configuration' table titled 'Source (Fields)' and 'Target (Fields)'. The table lists six fields: 'code', 'id_type_item', 'field_1', 'field_2', 'field_3', 'field_4', 'field_5', and 'field_6'. Each row shows a dropdown menu ('All -> Object') followed by an arrow pointing to the target field name. Red arrows highlight the mappings for 'code', 'id_type_item', and 'field_1'. A blue arrow highlights the flow from Source to Filter.

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



Haga clic para guardar el mapeo y luego en **Guardar** en la esquina superior derecha para guardar todo el flujo.

