

¿Cómo crear medidores en Fractal HUB?

help.fractal.com/hc/es-es/articles/37555428587917--Cómo-crear-medidores-en-Fractal-HUB

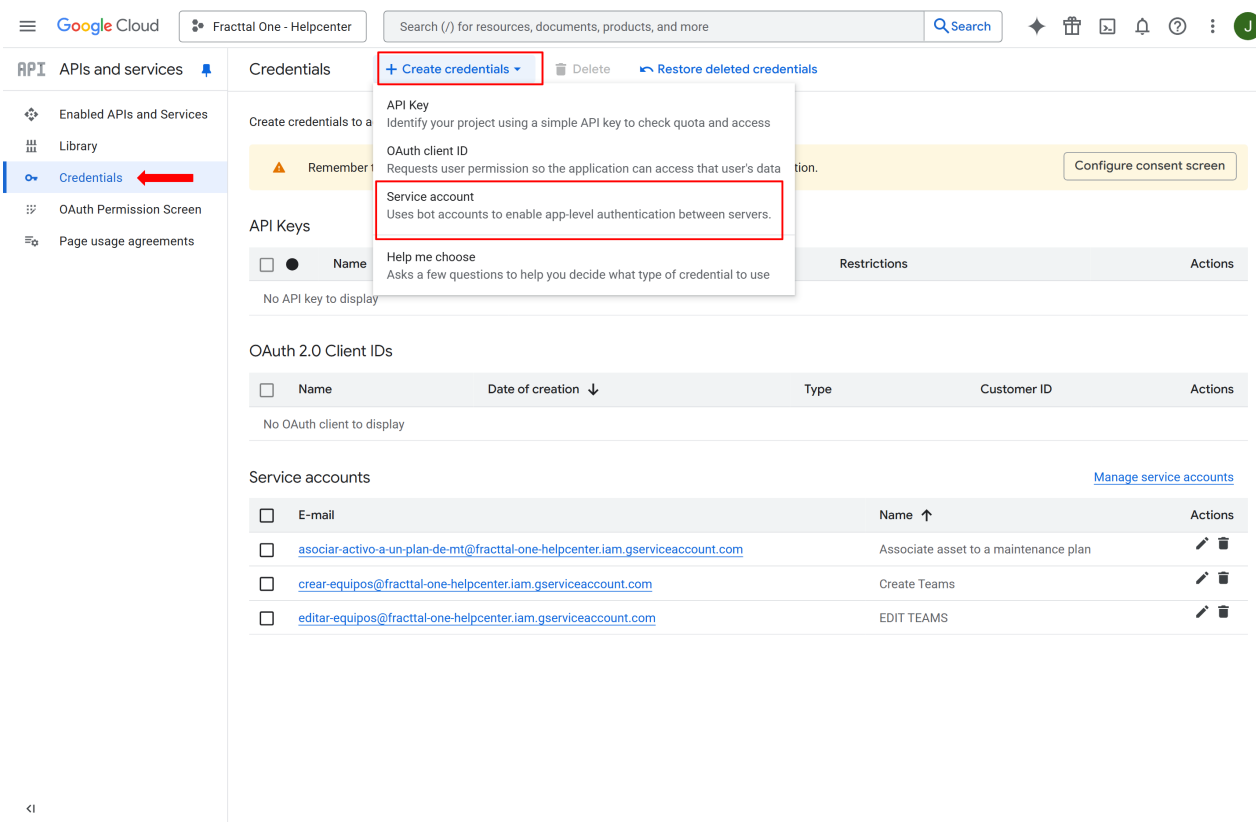
Con la opción de automatización en **Fractal Hub**, es posible gestionar la creación de medidores de forma eficiente y sin intervención manual, especialmente en contextos de alto volumen de datos. Esta funcionalidad permite a los usuarios agilizar procesos operativos y minimizar errores humanos en el manejo de lecturas de medidores.

A continuación, encontrarás una guía paso a paso sobre cómo configurar esta funcionalidad dentro de la plataforma Fractal Hub.

Paso 1: Accede a la Consola de Google Cloud

Ingresa a Google Cloud Console.

- Dirígete a la sección de **API y servicios > Credenciales**.
- Haz clic en **Crear credenciales > Cuenta de servicio**.



- Nombra la cuenta de servicio como "crear_medidores" y sigue el proceso hasta finalizar.

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

IAM and administrator / Service accounts / Create service account

← 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

Paso 2: Genera la clave JSON

1. Una vez creada la cuenta de servicio, selecciónala desde el listado.

Google Cloud Fractal One - Helpcenter

API APIs e serviços

Credentials + Create credentials Delete

APIs e serviços ativados

Biblioteca

Credenciais

Tela de permissão OAuth

Contratos de uso de página

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. Ingresa en la sección **Claves**. Haz clic en **Agregar clave** > **Crear clave nueva**.

The screenshot shows the Google Cloud IAM and administrator console. The left sidebar contains a navigation menu with options like IAM, PAM, and Contas de serviço. The main content area is titled 'EDIT TEAMS' and has tabs for Details, Permissions, Keys, Metric, Records, and Main with access. The 'Keys' tab is active, showing a warning about service account keys and a table of existing keys. A red box highlights the 'Add key' button, and another red box highlights the 'Create new key' option in the dropdown menu. A red arrow points to the 'Create new key' option.

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

IAM and administrator / Service accounts / Service account: 116354228228094995252 / Chaves

EDIT TEAMS

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

Keys

Service account keys can pose a security risk if compromised. We recommend avoiding 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 detected 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 for 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
3d1df3871dae13bf097b03088b2d8b72a97c0d24	10 de jul. de 2025	31 de dez. de 9999

3. Selecciona el formato **JSON**.

The screenshot shows the Google Cloud IAM and administrator console with the 'Keys' tab selected. A dialog box titled 'Create private key for "EDIT EQUIPMENT"' is open, showing the 'JSON' option selected under 'Key type'. A red arrow points to the 'JSON' option. The 'To create' button is highlighted with a red box.

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

IAM and administrator / Service accounts / Service account: 116354228228094995252 / Chaves

EDIT TEAMS

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

Keys

Service account keys can pose a security risk if compromised. We recommend avoiding 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 detected 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 for the existing pair.

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

Add key

Create private key for "EDIT EQUIPMENT"

A file containing the private key is downloaded. Store the file securely, as this key cannot be recovered if lost.

Key type

☒ **JSON**
Recommended

☐ **P12**
For backward compatibility using code with P12 format

Cancel **To create**

Type	Key	Date of creation	Expiration date
Ativo	3d1df3871dae13bf097b03088b2d8b72a97c0d24	10 de jul. de 2025	31 de dez. de 9999

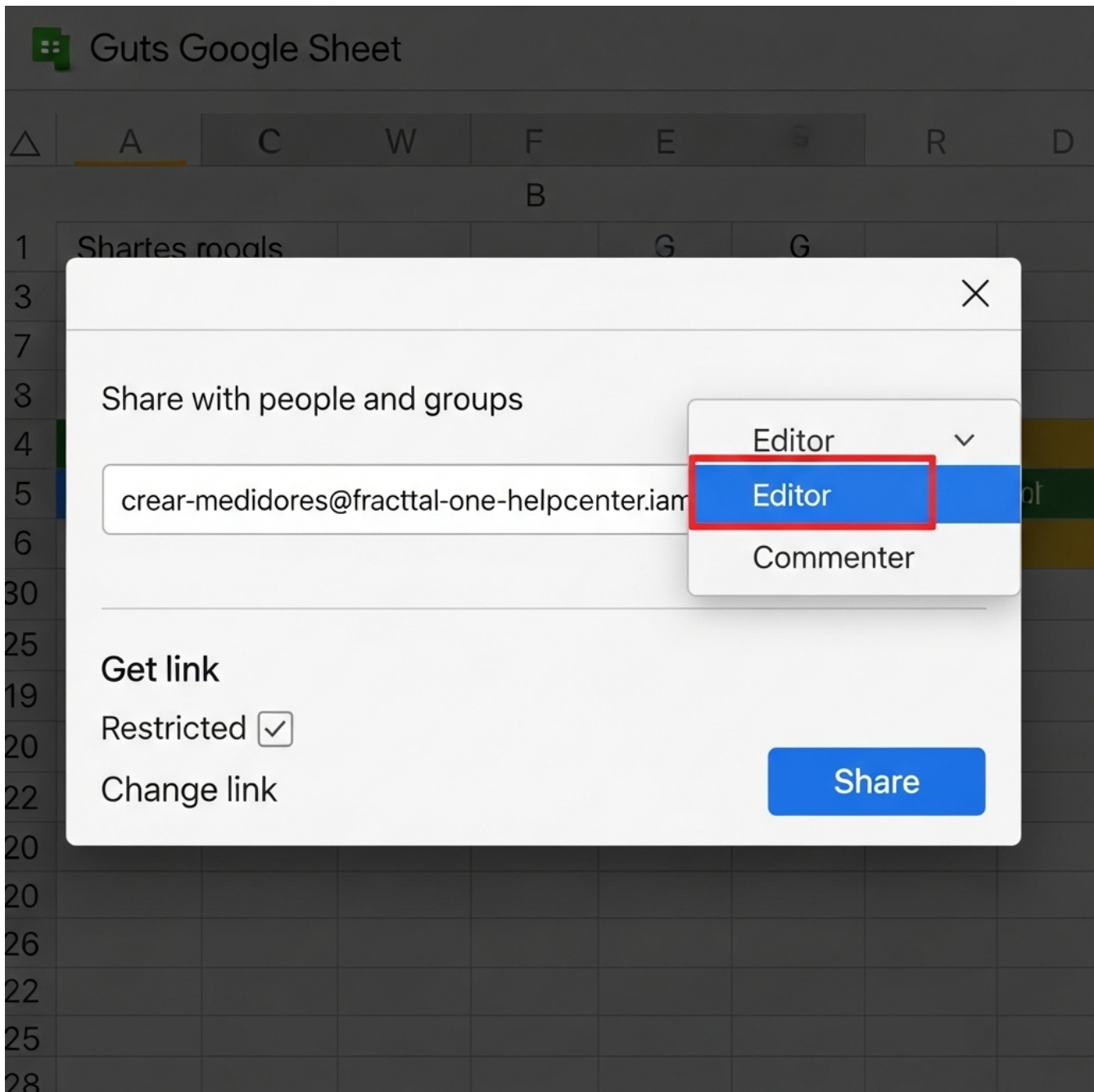
4. Guarda el archivo generado en una ubicación segura; este archivo será necesario para configurar la integración en Fractal Hub.

Paso 3: Preparar la hoja de cálculo (Google Sheets)

Ahora, prepararemos la hoja de cálculo que servirá como fuente de datos para la creación de los medidores.

description	item_code	unit_code	is_counter
Transformador Eléctrico	ABC123-HC-FC	KM	TRUE

1. Cree una nueva hoja de cálculo en Google Sheets.
2. Asígnele un nombre descriptivo, como CREAR MEDIDOR.
3. En la primera fila, defina las cabeceras de las columnas. Estas deben coincidir con los parámetros que requiere la API de Fractal. Para este ejemplo, utilizaremos los siguientes campos obligatorios y uno opcional:
 - **Columna A:** description (Descripción del medidor, ej: "Medidor de KM").
 - **Columna B:** item_code (Código del activo al cual se asociará el medidor, ej: "HUB-004").
 - **Columna C:** unit_code (Código de la unidad del medidor, ej: "KM". Este código debe existir previamente en Configuración > Catálogos Auxiliares > Unidad).
 - **Columna D:** is_counter (Opcional, pero recomendado. Indica si el medidor es un acumulador. Escriba TRUE si lo es, o FALSE si no).
4. Llene las filas con la información de los medidores que desea crear.
5. **Compartir la hoja de cálculo:** Este es un paso crucial.
 - Copie el correo electrónico de la cuenta de servicio que creó en el Paso 1 (lo encontrará dentro del archivo .json en el campo client_email).
 - Haga clic en el botón **Compartir** en su hoja de cálculo.
 - Pegue el correo de la cuenta de servicio y asígnele permisos de **Editor**.

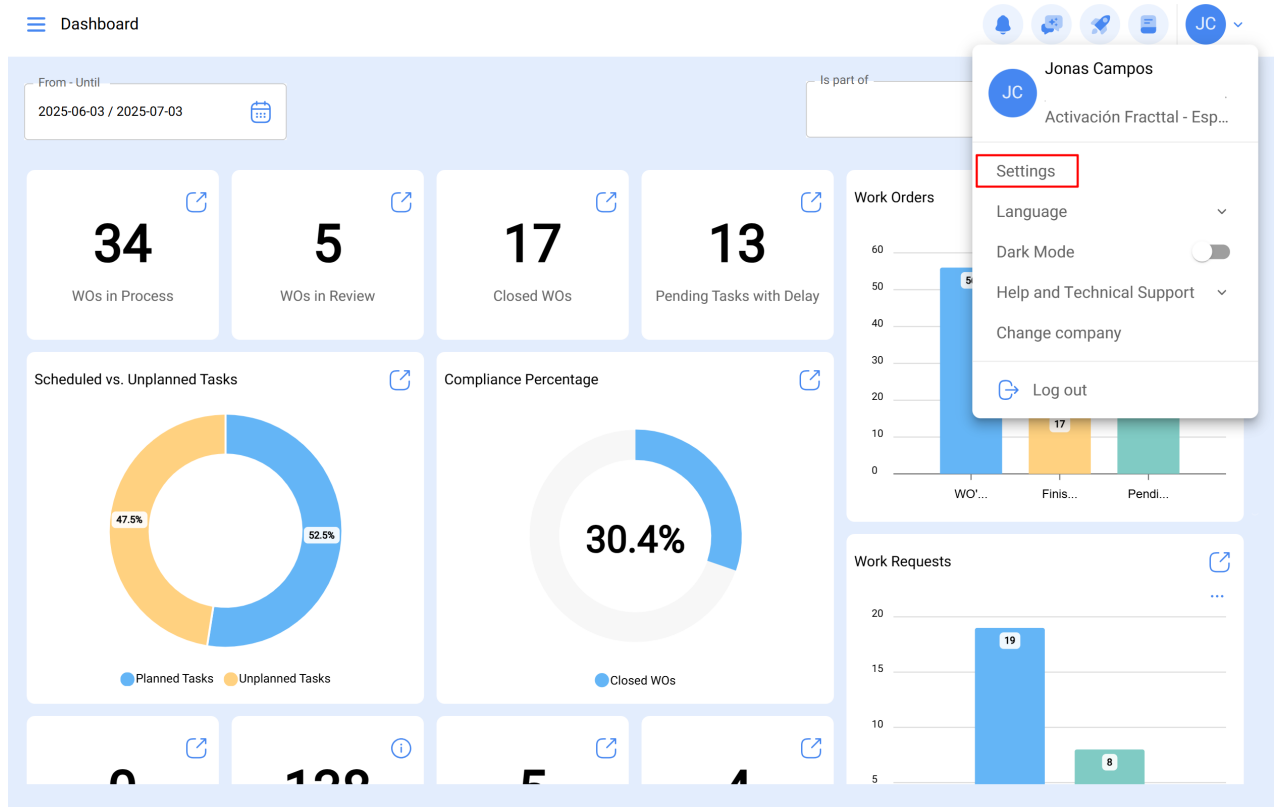


Haga clic en **Enviar**.

Paso 4: Crear la conexión en Fractal One

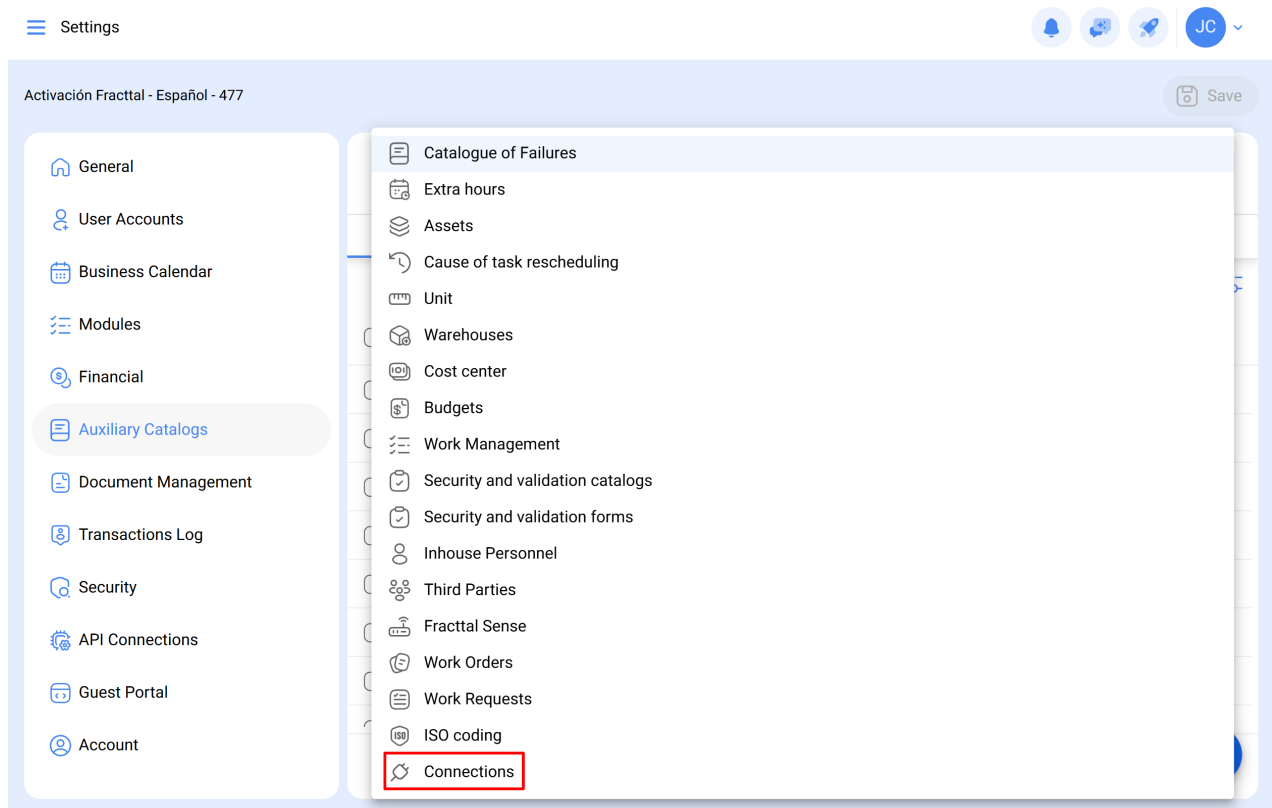
Ahora vamos a configurar la conexión dentro de Fractal para que pueda usar las credenciales de la cuenta de servicio.

1. En Fractal, navega hasta **Configuración > Catálogos Auxiliares > Conexiones**.

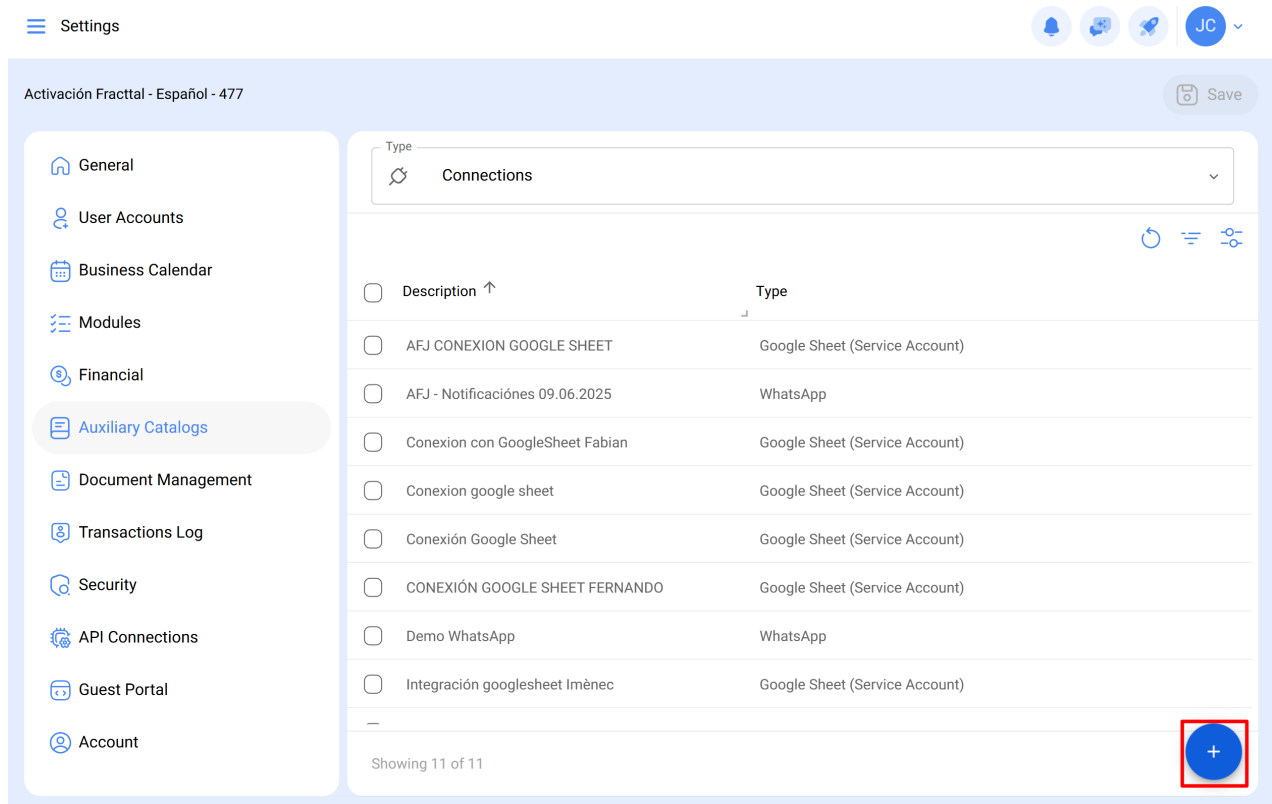


The settings page is titled "Activación Fractal - Español - 477". The left sidebar lists various settings categories, with "Auxiliary Catalogs" highlighted. The main content area shows the configuration for this catalog:

- General:**
 - 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 Inacap Apoquindo.



2. Haz clic en el ícono + para agregar una nueva conexión.



3. Rellena los siguientes campos:

The screenshot shows the 'Settings' page for 'Activación Fractal - Español - 477'. The left sidebar contains a menu with options: 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 of existing connections. The table has columns for 'Type', 'Description', and 'Type'. The 'Type' column is currently empty. The 'Description' column contains various entries like '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 Imenec'. The 'Type' column shows 'G' for Google Sheet and 'W' for WhatsApp. At the bottom of the table, it says 'Showing 11 of 11'. To the right of the table, there is a form to add a new connection. The form has two fields: 'Type' and 'Description'. Both fields have a red border and a red error message below them: 'Type can't be blank' and 'Description can't be blank'. The form also has a blue back arrow on the left and a blue checkmark on the right.

- **Tipo:** Selecciona **Google Sheet (Service Account)**.
- **Descripción:** Asigna un nombre a la conexión:

4. Abre el archivo .json descargado y copia/pega el contenido de los siguientes campos en sus respectivos lugares del formulario de Fractal:

- private_key
- client_email
- client_id
- client_x509_cert_url

5. Haz clic en el ícono ✓ para guardar y luego en **Guardar**.

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
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

Showing 15 of 15

←

↗

✓

TypeGoogle Sheet (Service Account)▼

DescriptionCREAR MEDIDOR - 0725

Type
service_account

project_id *
@fractal.com

private_key_id *

private_key *

client_email *
crear-medidores@fractal-one-helpcenter.iam.gserviceaccour

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

Paso 5: Configurar el flujo en Fractal Hub

Con la conexión lista, el último paso es crear el flujo de automatización.

1. Navega hasta el módulo **Fractal Hub**.

The screenshot shows the Fractal One dashboard. On the left is a navigation menu with the following items: Start, Fractal AI, Catalogs, Warehouses, Work Management, Monitoring, Dispatcher (highlighted with a red arrow), Events, Fractal Hub (highlighted with a red box), Business Intelligence, Cloud Disk, and Requests. The main dashboard area displays several metrics: 73 Closed WOs, 24 Pending Tasks with Delay, a Compliance Percentage of 57.0% (represented by a donut chart), a bar chart for Work Orders with values 128, 73, and 55, and a bar chart for Work Requests with a value of 39. The top right corner shows a user profile 'J' and a search bar.

2. Haz clic en el ícono + para crear un nuevo flujo.

The screenshot shows the Fractal Hub interface. At the top, there is a search bar and a user profile 'JC'. Below is a table of flows with the following columns: Enabled, Description, Last Date, and Trigger. The table contains 14 rows of data. At the bottom right of the table, there is a blue circular button with a white plus sign (+), which is highlighted with a red box.

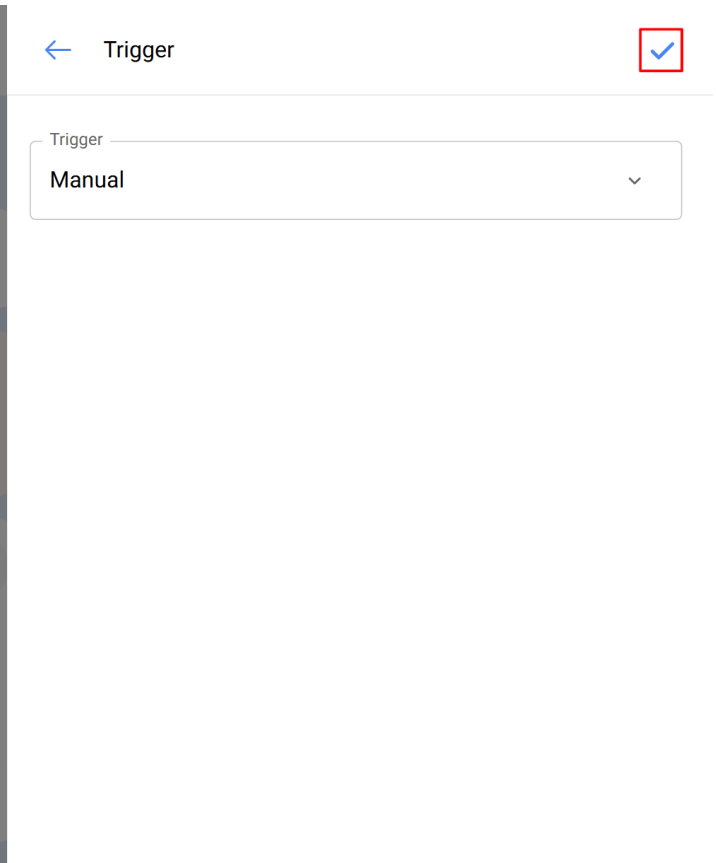
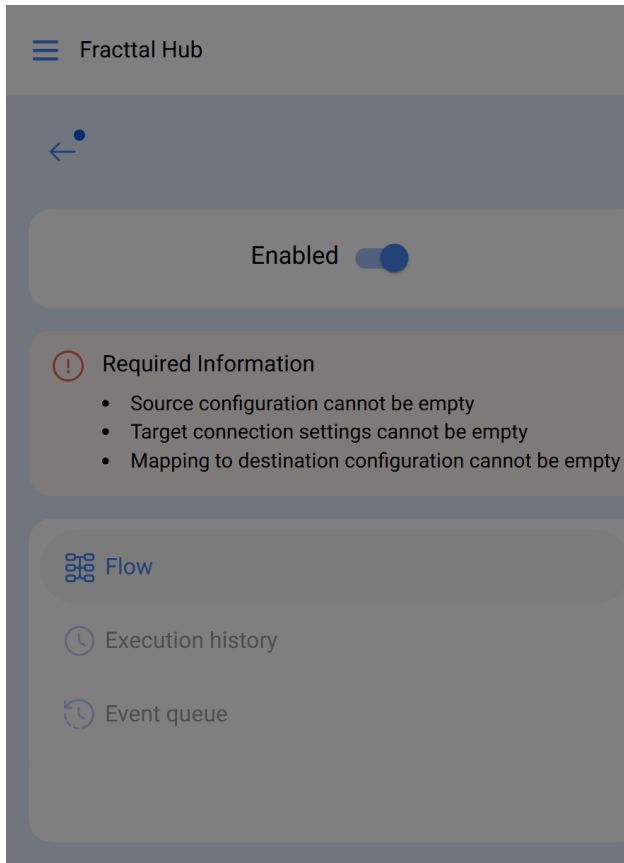
Enabled	Description	Last Date	Trigger
☐	Notificación de nuevas órdenes de servicio de Whatsapp (P...	2025-07-02 12:54	Event
☐	actualización de horometro	2024-11-22 18:15	Schedule
☐	AFJ. 09.06.2025. Conex. Wpp	2025-06-09 09:57	Event
☐	Lecturas fuera de Rango (Rangel)	2023-03-22 17:51	Event
☐	Consulta subtaeas Fractal Fabian	2024-12-18 20:26	Manual
☐	Projeto LCS 1212	2024-12-12 18:12	Manual
☐	Lecturas fuera de rango	2023-03-22 17:51	Event
☐	webnar 2024	2024-12-17 23:06	Manual
☐	Notificación de nuevas órdenes de servicio de Whatsapp (E...	2025-05-23 22:20	Event
☐	Comunicación Fractal One	2024-09-05 21:53	Event
☐	BODEGAS FAC - MEDIDORES	2025-01-20 16:56	Manual

3. Añade una **Descripción** para el flujo:

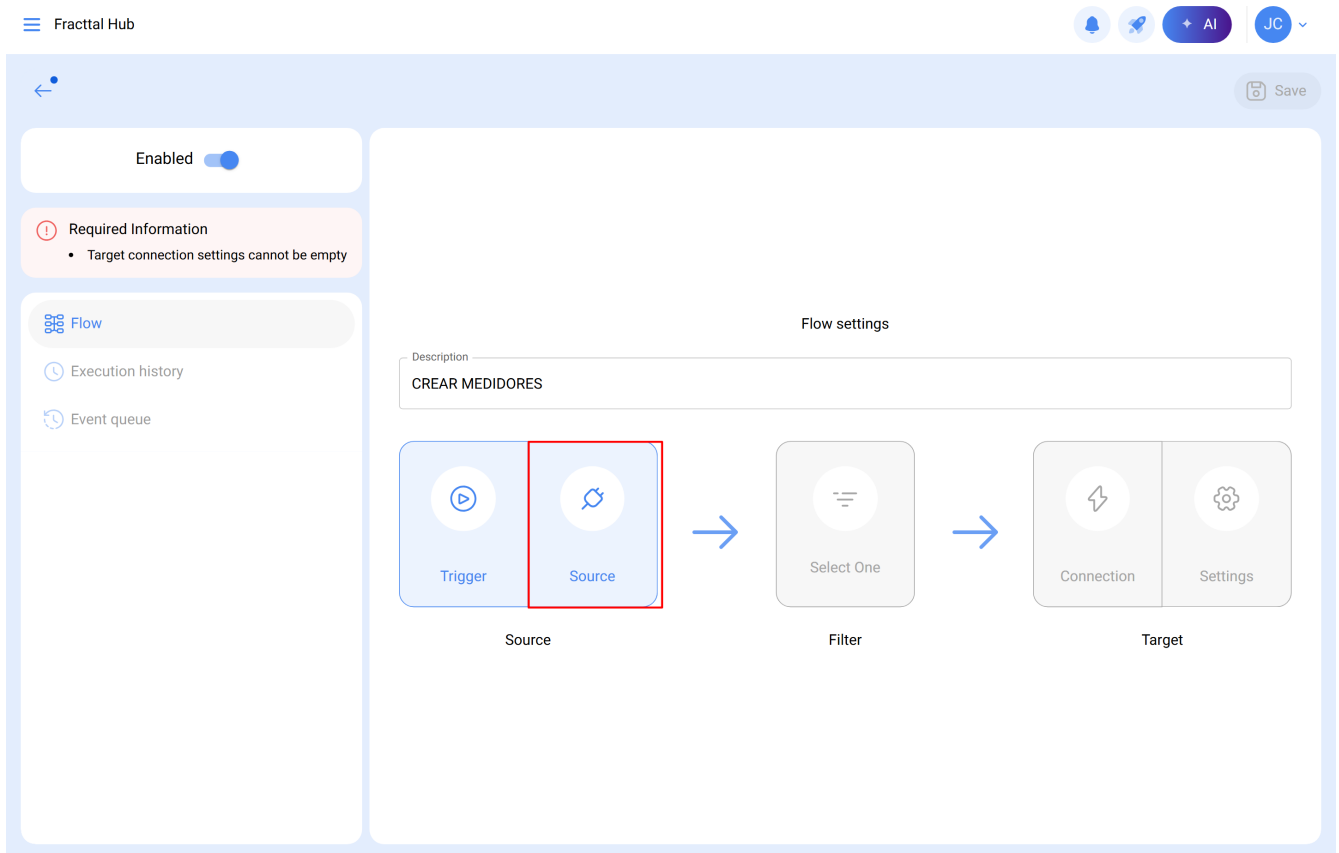
The screenshot displays the Fractal Hub interface for configuring a flow. At the top, the header includes the 'Fractal Hub' logo, notification and settings icons, an 'AI' button, and a user profile 'JC'. The main workspace is divided into two panels. The left panel contains an 'Enabled' toggle switch, a 'Required Information' section with three bullet points (Source configuration cannot be empty, Target connection settings cannot be empty, Mapping to destination configuration cannot be empty), and a sidebar with 'Flow' (selected), 'Execution history', and 'Event queue'. The right panel, titled 'Flow settings', features a 'Description' text input field containing 'CREAR MEDIDORES', which is highlighted with a red border. Below this is a visual representation of the flow components: a blue 'Trigger' block and a grey 'Source' block. A blue arrow points from the 'Source' block down to the word 'Source' at the bottom of the panel.

Configuración del activador:

Haz clic en **Activador** y selecciona el tipo **Manual**. Esto permite ejecutar el flujo cuando se desee.



Configuración de la Fuente:



- Haz clic en **Fuente**.
- **Módulo**: Selecciona GoogleSheet.
- **Conexión**: Selecciona la conexión creada en el paso anterior.
- **Acción**: Selecciona Leer.
- **spreadsheet_id**: Copia el ID de tu hoja de cálculo (lo encuentras en la URL, entre /d/ y /edit/).
- **sheet**: Escribe 0 para leer la primera pestaña.
- **Campos**: Agrega los nombres de las columnas:

The screenshot shows the 'Source' configuration panel in the Fractal Hub. The panel is titled 'Source' and has a 'Enabled' toggle switch. Below the toggle is a 'Required Information' section with three bullet points: 'Source configuration cannot be empty', 'Target connection settings cannot be empty', and 'Mapping to destination configuration cannot be empty'. The main configuration area is divided into several sections: 'Module' (GoogleSheet), 'Connection' (CREAR MEDIDOR - 0725), 'Action' (Read), 'spreadsheet_id' (338689D5-4FC6-4641-9FB3-715768F4DCAC), and 'sheet' (0). These five sections are highlighted with a red box. Below these sections is a 'Fields' section with a table for mapping source fields to destination fields.

Name	Type	Action
id	Text	+

Configuración del Destino:

Fractal Hub

Enabled ☒

Required Information

- Target connection settings cannot be empty

Flow

Execution history

Event queue

Flow settings

Description

CREAR MEDIDORES

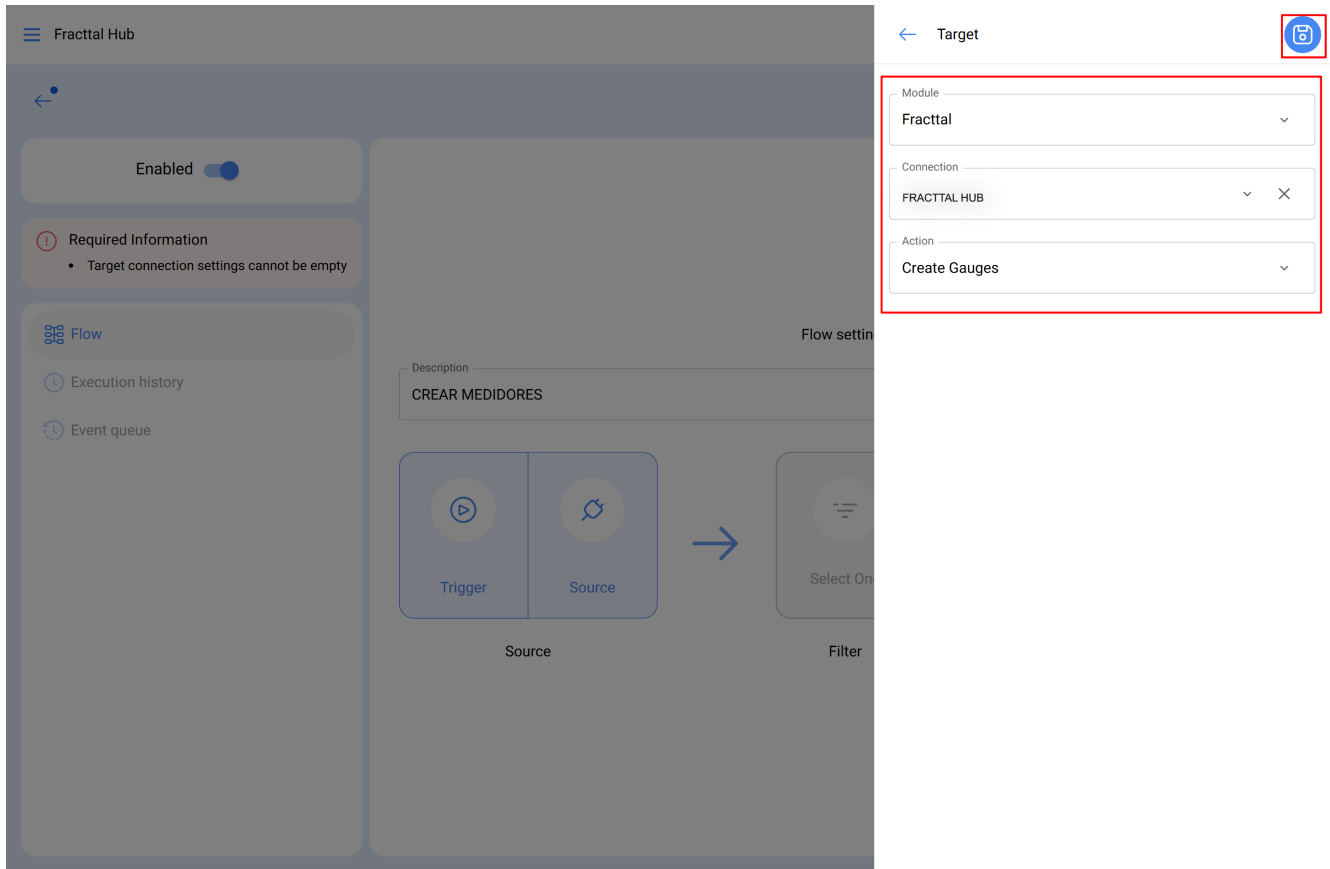
Trigger Source

Select One

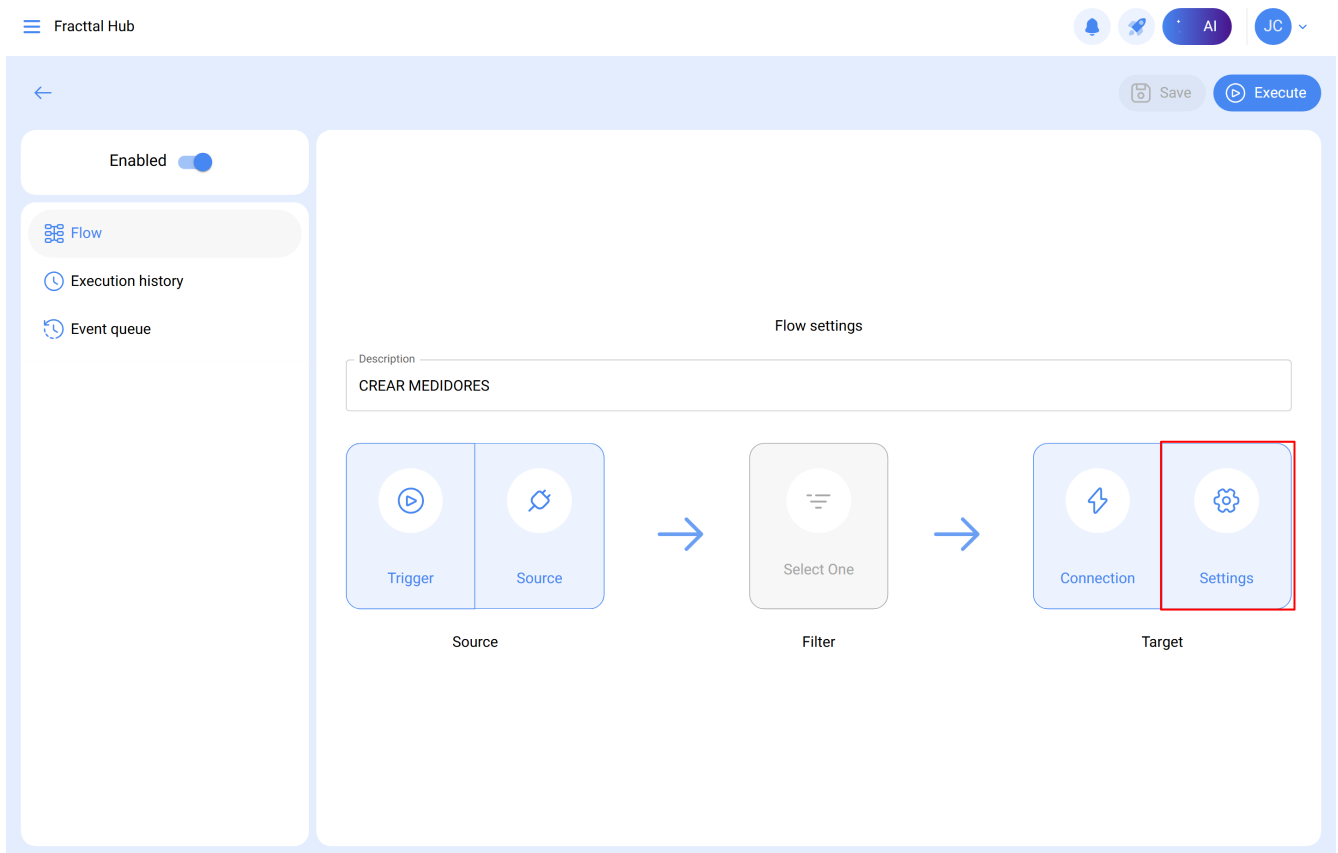
Connection Settings

Source Filter Target

- Haz clic en **Conexión** en la sección de destino.
- **Módulo**: Selecciona Fractal.
- **Conexión**: Elige FRACTTAL HUB.
- **Acción**: Selecciona Crear Medidores.



Configuración de campos (mapeo):



- Haz clic en **Configuración** en la sección de destino.
- Mapea los campos de la hoja (Origen) con los del sistema (Destino), asegurándote de que coincidan:

description ← **description**

item_code ← **item_code**

unit code ← **unit_code**

is_counter ← **is_counter**

The screenshot displays the 'Fields Configuration' window in Fractal Hub. It shows a mapping between source fields from Google Sheet and target fields in the Fractal API. The source fields are 'description', 'item_code', 'unit_code', 'All -> Object', 'is_counter', 'All -> Object', and 'All -> Object'. The target fields are 'description', 'item_code', 'unit_code', 'serial', 'is_counter', 'serial_parent_meter', and 'last_reading'. The background shows a flow diagram with a 'Trigger' and a 'Source' block.

Haz clic en **Guardar** para guardar la configuración del flujo.

Paso 7: Ejecutar y verificar el flujo

1. Activa el interruptor **Habilitado**.

2. Haz clic nuevamente en **Guardar**.

The screenshot shows the Fractal Hub interface. In the top right corner, there is a 'Save' button with a floppy disk icon, highlighted with a red box. On the left sidebar, the 'Enabled' toggle switch is also highlighted with a red box. The main area displays a flow diagram with the following components:

- Source:** A box containing 'Trigger' and 'Source' icons.
- Filter:** A box containing a 'Select One' icon.
- Target:** A box containing 'Connection' and 'Settings' icons.

Arrows indicate the flow from Source to Filter to Target. The description field at the top of the flow settings contains the text 'Asociar activo a plan de MTTO'.

3. Haz clic en el botón **Ejecutar** para iniciar el proceso.

The screenshot shows the Fractal Hub interface. In the top right corner, there is an 'Execute' button with a play icon, highlighted with a red box. The 'Enabled' toggle switch on the left sidebar is now turned on. The main area displays a flow diagram with the following components:

- Source:** A box containing 'Trigger' and 'Source' icons.
- Filter:** A box containing a 'Select One' icon.
- Target:** A box containing 'Connection' and 'Settings' icons.

Arrows indicate the flow from Source to Filter to Target. The description field at the top of the flow settings contains the text 'CREAR MEDIDORES'.

Puedes monitorear el progreso en las pestañas **Cola de eventos** e **Historial de Ejecución**. Un proceso exitoso mostrará "Proceso Realizado" y marcará como completas las etapas de Extracción, Transformación y Carga.

The screenshot displays the Fractal Hub interface. At the top left, the text "Fractal Hub" is visible. On the top right, there are several icons: a bell, a mail icon, a rocket, and a user profile icon labeled "JC". Below the top bar, on the left, is a sidebar with a toggle switch labeled "Enabled" which is turned on. Below the toggle are two menu items: "Flow" (highlighted with a blue background) and "Execution history" (which is highlighted with a red rectangular box). Below "Execution history" is "Event queue". The main area of the interface is titled "Flow settings". It contains a description field with the text "Asociar activo a plan de MTTO". Below the description is a flow diagram. The flow starts with a "Source" block containing "Trigger" and "Source" options. An arrow points to a "Filter" block containing a "Select One" option. Another arrow points to a "Target" block containing "Connection" and "Settings" options.