

Como criar um equipamento usando o Fracttal Hub? – Central de Ajuda

help.fracttal.com/hc/pt-br/articles/37609623465229-Como-criar-um-equipamento-usando-o-Fracttal-Hub

A integração com o Fracttal Hub facilita a incorporação controlada de novos equipamentos à plataforma, garantindo que os dados sigam uma estrutura padronizada. Este guia explica como configurar um fluxo seguro para criar equipamentos no Fracttal One utilizando uma planilha como origem de dados.

A conexão será estabelecida utilizando uma **Conta de Serviço** (Service Account) do Google Cloud Platform, que é o método recomendado para integrações de servidor a servidor, garantindo segurança e autonomia.

Etapa 1: Configuração no Google Cloud Platform (GCP)

O primeiro passo é criar as credenciais necessárias na plataforma do Google para permitir que o Fracttal One acesse sua planilha de forma segura.

1.1. Acesse a conta de serviço

Acesse o Console do Google Cloud Platform.

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No menu de navegação, vá para **APIs e serviços > Credenciais**.

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Test Gemini 2.0 Flash
Test Gemini →

Quick access

- API APIs and services**
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Clique em **+ CRIAR CREDENCIAIS** e selecione a opção **Conta de serviço**.

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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

API Keys

Name

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" ×

Preencha os seguintes campos:

- o **Nome da conta de serviço:** Atribua um nome descritivo.
- o **ID da conta de serviço:** Geralmente é gerado automaticamente a partir do nome.

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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
Criar Equipos
Display name for this service account

Service Account ID *
crear-equipos-773 X C

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

Clique em "Pronto" para finalizar a criação da credencial.

Uma vez criada, será necessário habilitá-la para que possa ser utilizada nos processos de integração.

1.2. Gerar a Chave de Acesso (JSON)

- Na tela de **Credenciais**, localize a conta de serviço recém-criada e clique no seu endereço de e-mail.
- Vá para a aba **CHAVES**.
- Clique em **ADICIONAR CHAVE** e selecione **Criar nova chave**.

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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

Upload a current key

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

Escolha o tipo **JSON** (recomendado) e clique em **CRIAR**.

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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**

Um arquivo `.json` será baixado automaticamente para o seu computador. Guarde-o em um local seguro, pois contém as credenciais de acesso e será necessário na Etapa 3.

Etapa 2: Preparação da planilha do Google Sheets

Agora prepararemos a planilha que servirá como fonte de dados.

Abra sua planilha do Google Sheets.

Estrutura dos cabeçalhos:

Na primeira linha, certifique-se de que os nomes das colunas coincidam exatamente com os parâmetros exigidos pela API do Fractal para a criação de ativos. Os campos obrigatórios são:

- `code`: Código único do ativo.
- `id_type_item`: ID numérico do tipo de ativo (por exemplo: `2` para Equipamentos, conforme a documentação da API).
- `field_1`: Corresponde ao **Nome** do ativo.

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

Compartilhar a planilha:

É crucial conceder permissão de acesso à Conta de Serviço que criamos.

No GCP, copie o e-mail da sua conta de serviço.

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

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

- Volte para a planilha, clique em **Compartilhar**.
- Cole o e-mail no campo de compartilhamento.
- Atribua a permissão de **Editor**.
- Clique em **Enviar/Compartilhar**.

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](#)

Etapa 3: Configuração da conexão no Fractal One

Com as credenciais e a planilha prontas, configuraremos a ponte de comunicação dentro do Fractal One.

No Fractal One, navegue até **Configuração > Catálogos Auxiliares**.

Settings ←

Activación Fractal - Español - 477

Save

General

User Accounts

Business Calendar

Modules

Financial

Auxiliary Catalogs

Document Management

Transactions Log

Security

API Connections

Guest Portal

Account

Type: Catalogue of Failures

Failure Types Failure Causes Fault Detection

Description ↑

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

Showing 50 of 76

+

- No seletor de catálogos, escolha **Conexões**.
- Clique no ícone **+** para adicionar uma nova conexão.

- 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



Configure os seguintes campos:

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 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

← [Share] [Checkmark]

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

Description: **Crear Equipos**

Type: service_account

project_id *

private_key_id *

private_key *

client_email *

client_id *

- **Tipo:** Selecione **Google Sheet (Service Account)**.
- **Descrição:** Insira um nome claro para esta conexão, por exemplo, **CRIAR EQUIPAMENTOS**.

Complete as credenciais:

Abra o arquivo **.json** baixado na Etapa **1.2** e copie e cole o conteúdo de cada campo no formulário do Fractal One:

The screenshot shows the 'Settings' page for 'Activación Fractal - Español - 477'. The 'Connections' section is active, displaying a list of existing connections. A modal form for adding a new connection is open, with the following fields highlighted in red:

- private_key *** (must have required property 'private_key')
- client_email *** (must have required property 'client_email')
- client_id *** (must have required property 'client_id')
- client_x509_cert_url *** (must have required property 'client_x509_cert_url')

Other visible fields in the form include:

- 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>

- **private_key**
- **client_email**
- **client_id**
- **client_x509_cert_url**
- ...e os demais campos exigidos.

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 *

client_id *

client_x509_cert_url *

auth_uri

token_uri

auth_provider_x509_cert_url

Clique em **Salvar**.

Etapa 4: Criar o fluxo no Automatizador (Fractal Hub)

Finalmente, criaremos o fluxo de automação que lerá os dados e criará os ativos.

Vá ao menu principal e selecione **Automatizador > Fractal Hub**.



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

Save

Type

Connections

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

Showing 11 of 11

Clique no ícone + para criar um novo fluxo.



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	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 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



Atribua um nome ao fluxo.

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

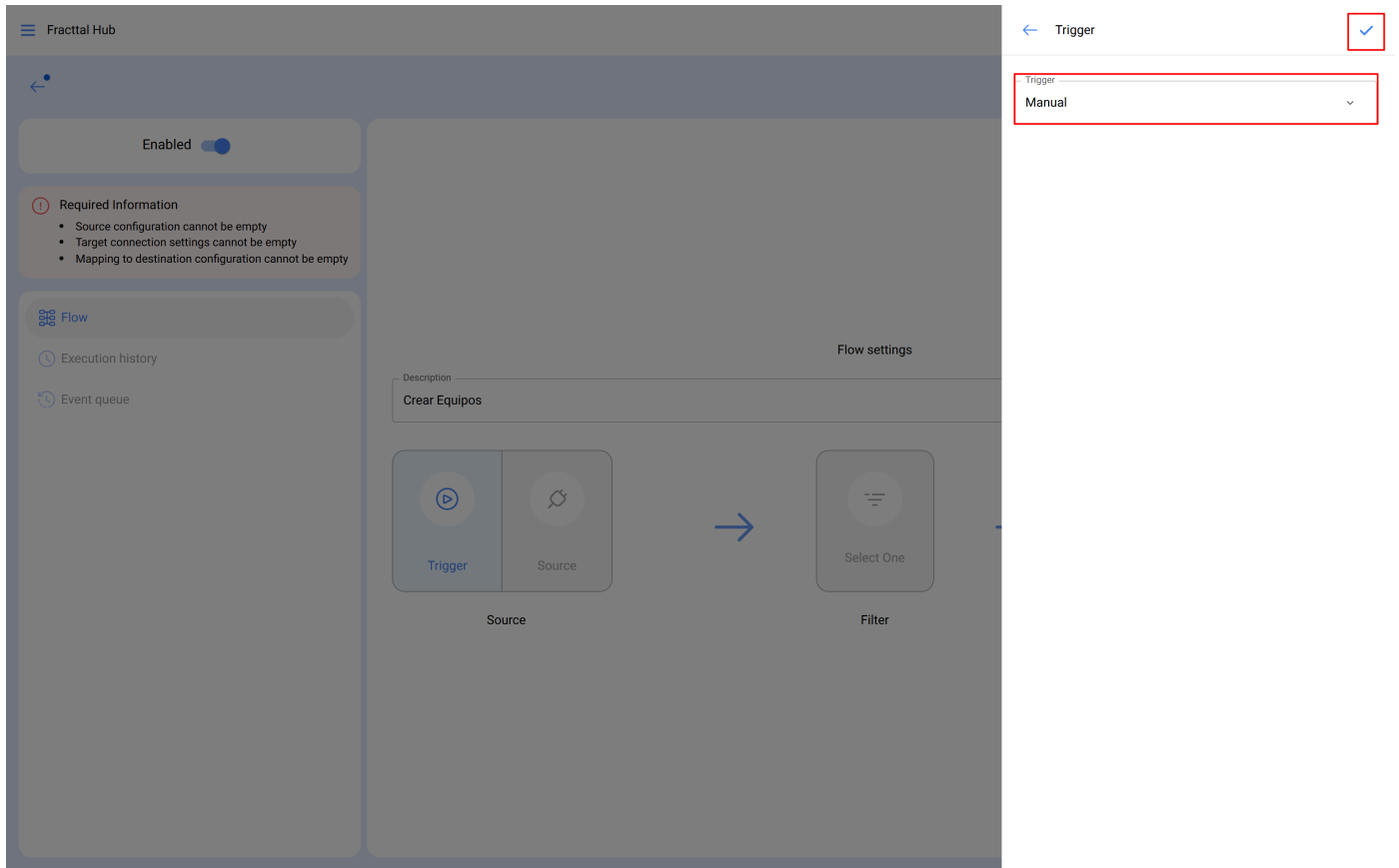
Source Filter Target

4.1. Configurar a Fonte (Source)

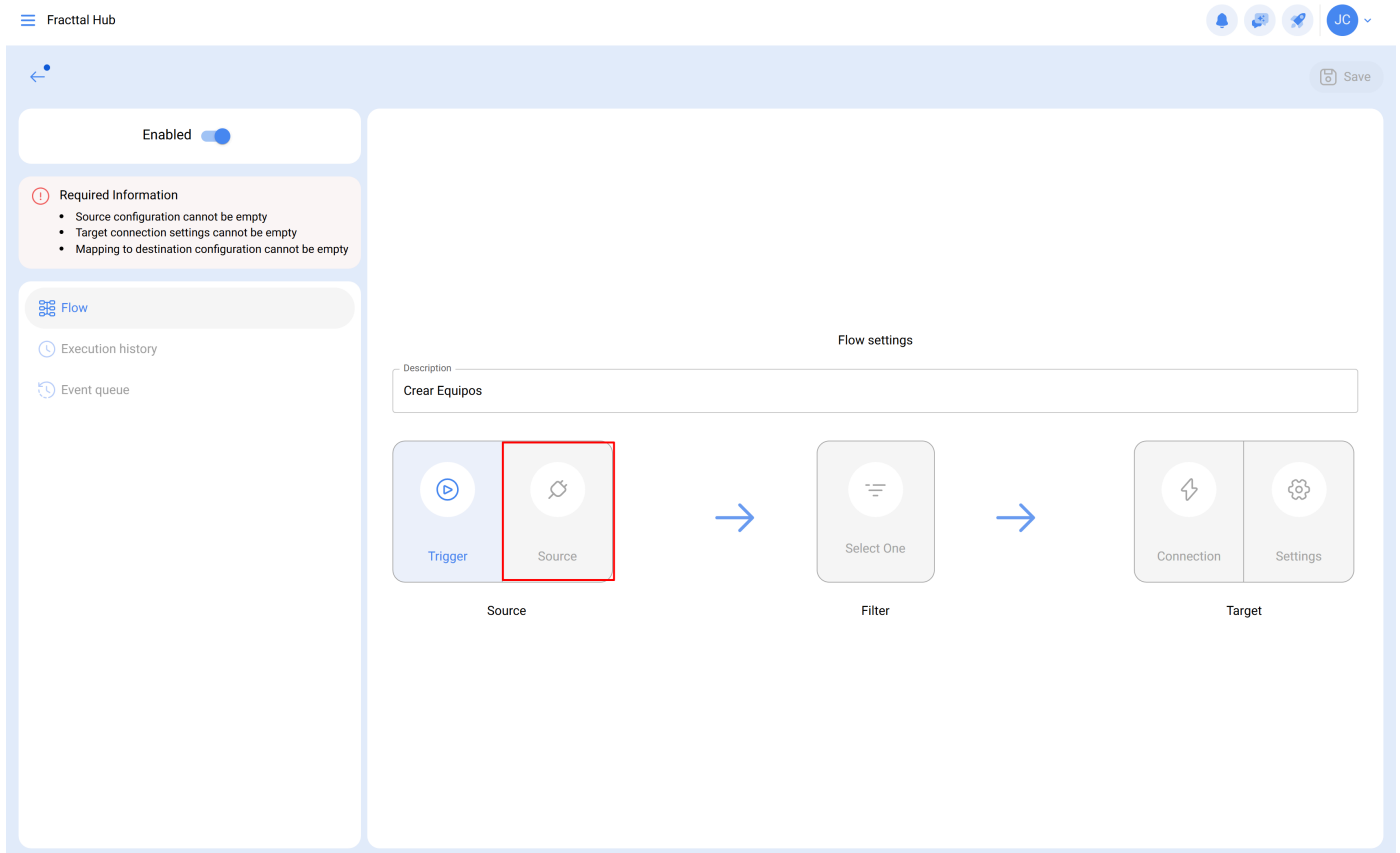
Ativador

The screenshot shows the Fractal Hub interface for configuring a flow. On the left, there is a sidebar with an 'Enabled' toggle switch, 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 'Creat 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.

Para este exemplo, selecione **Manual**. Isso permite que você execute o fluxo quando desejar.



Fonte:



- **Módulo:** Selecione **GoogleSheet**.
- **Conexão:** Selecione a conexão criada na Etapa 3 (**CRIAR EQUIPAMENTOS**).
- **Ação:** Selecione **Ler**.
- **spreadsheet_id:** Cole o ID da sua planilha. Você pode encontrá-lo na URL (o código longo entre **/d/** e **/edit**).
- **sheet:** Insira **0** para ler a primeira aba (a numeração começa em 0).
- **Campos:** Adicione os nomes dos cabeçalhos da sua planilha (**code**, **id_type_item**, **field_1**).

The screenshot displays the Fractal Hub interface for configuring a flow. On the left, there is a sidebar with an 'Enabled' toggle, a 'Required Information' section with a warning 'Target connection settings cannot be empty', and a 'Flow' section with 'Execution history' and 'Event queue' links. The main workspace shows a flow diagram with a 'Source' block (containing 'Trigger' and 'Source' sub-blocks) and a 'Filter' block (containing 'Select One'). A 'Flow settings' panel is open on the right, highlighted with a red border. This panel is titled 'Source' and contains the following configuration:

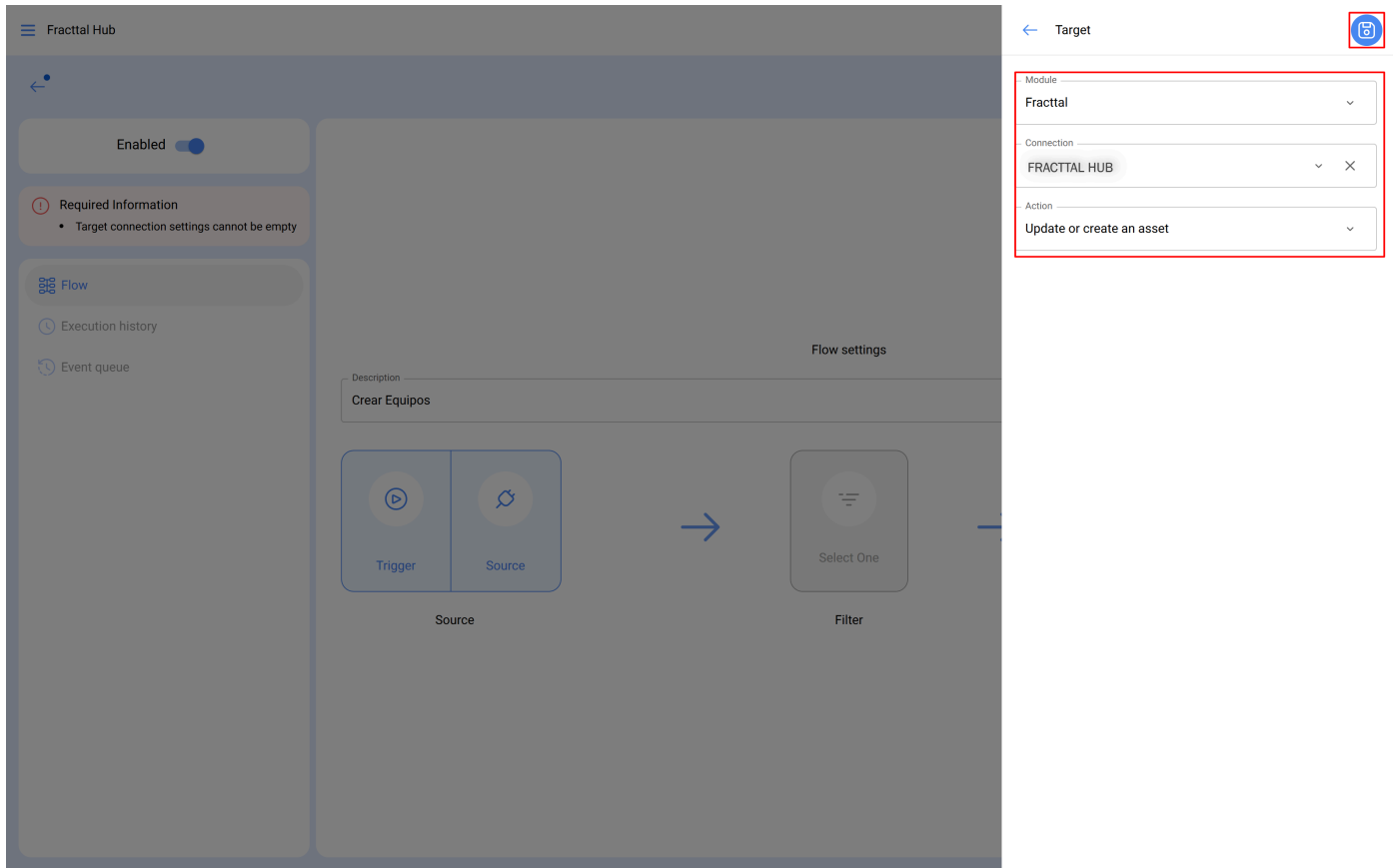
- Module:** GoogleSheet
- Connection:** Conexión Google Sheet
- Action:** Read
- spreadsheet_id:** <https://www.googleapis.com/robot/v1/metadata/x509/crear>
- sheet:** 0
- Fields:**
 - Name: code, Type: Text
 - Name: id_type_item, Type: Text
 - Name: field-1, Type: Text

4.2. Configurar o Destino (Destination)

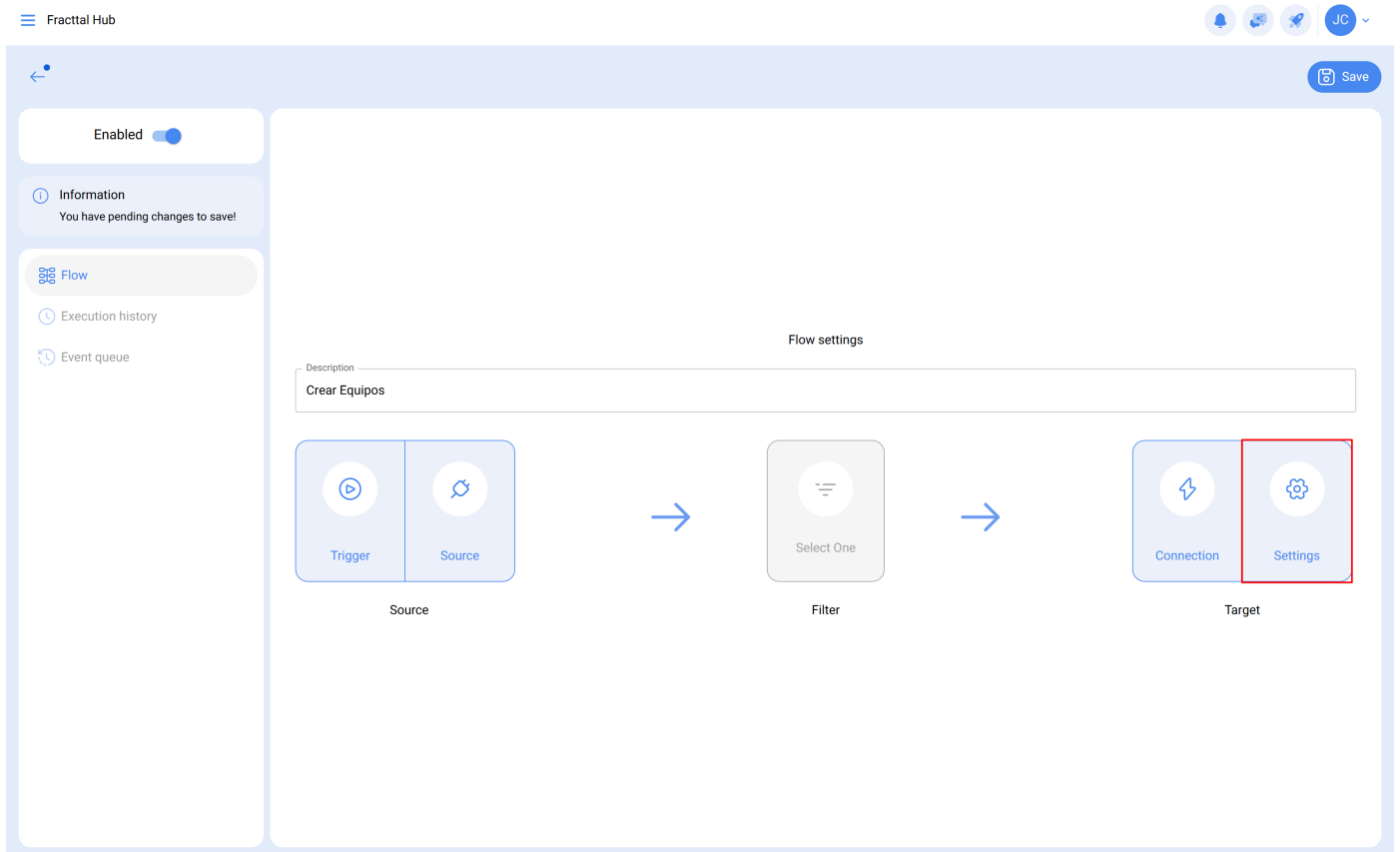
Conexão:

The screenshot shows the Fractal Hub interface for configuring a flow. The top navigation bar includes the Fractal Hub logo and user profile 'JC'. The main area is titled 'Flow settings' and contains a description field with the text 'Crear Equipos'. Below the description, the flow is visualized as a sequence of three steps: 'Source' (containing 'Trigger' and 'Source' components), 'Filter' (containing 'Select One'), and 'Target' (containing 'Connection' and 'Settings' components). The 'Connection' component in the Target step is highlighted with a red box. On the left side, there is a sidebar with an 'Enabled' toggle, a 'Required Information' section with a warning message, and a 'Flow' section with links for 'Execution history' and 'Event queue'. A 'Save' button is located in the top right corner of the main area.

- **Módulo:** Seleccione **Fractal**.
- **Conexão:** Seleccione **FRACTTAL HUB**.
- **Ação:** Seleccione **Atualizar** ou **criar um ativo**.



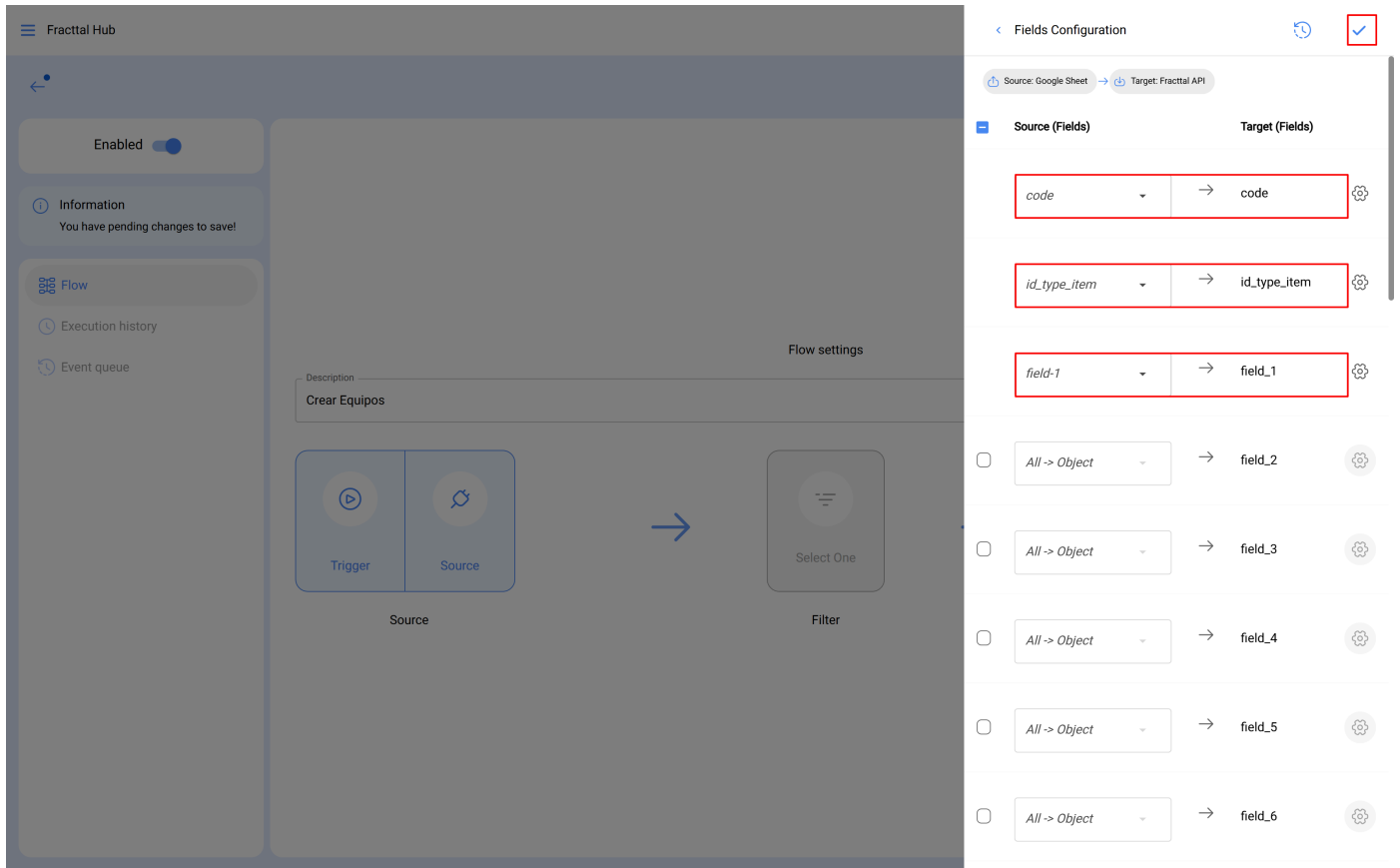
Configuração



- Clique no ícone de engrenagem (Configuração).
- Mapeie os campos de origem (Google Sheet) com os de destino (API do Fractal), garantindo que coincidam:

The image shows the Fractal Hub interface. On the left, there is a sidebar with navigation options: 'Enabled' (toggle), 'Information' (You have pending changes to save!), 'Flow' (with a sub-menu), 'Execution history', and 'Event queue'. The main area displays a flow configuration for 'Crear Equipos'. It shows a 'Source' block containing 'Trigger' and 'Source' components, and a 'Filter' block containing 'Select One'. A blue arrow points from the Source to the Filter. On the right, the 'Fields Configuration' panel is open, showing a mapping between 'Source (Fields)' and 'Target (Fields)'. The source fields are 'code', 'id_type_item', and 'field_1', each with a red arrow pointing to its corresponding 'All -> Object' dropdown in the source column. The target fields are 'field_2', 'field_3', 'field_4', 'field_5', and 'field_6', each with a gear icon for configuration.

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



Clique para salvar o mapeamento e depois em **Salvar** no canto superior direito para salvar todo o fluxo.

