

Como criar um equipamento usando Fractal Hub? – Centro de ajuda

help.fractal.com/hc/pt-pt/articles/37609623465229-Como-criar-um-equipamento-usando-Fractal-Hub

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

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

Etapa 1: Configuração na Google Cloud Platform (GCP)

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

1.1. Acesse à conta de serviço

Acesse à Consola da Google Cloud Platform.

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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

← Create service account

1 Create service account

Service Account Name
Criar Equipos

Display name for this service account

Service Account ID *
crear-equipos-773

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 "Concluído" 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 folha do Google Sheets

Agora prepararemos a folha que servirá como fonte de dados.

Abra a sua folha do Google Sheets.

Estrutura dos cabeçalhos:

Na primeira linha, certifique-se de que os nomes das colunas coincidam exatamente com os parâmetros requeridos 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, de acordo com 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

Partilhar a folha:

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

Na GCP, copie o e-mail da sua conta de serviço.

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

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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

- Volte à folha de cálculo, clique em **Partilhar**.
- Cole o e-mail no campo de partilha.
- Atribua a permissão de **Editor**.
- Clique em **Enviar/Partilhar**.

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

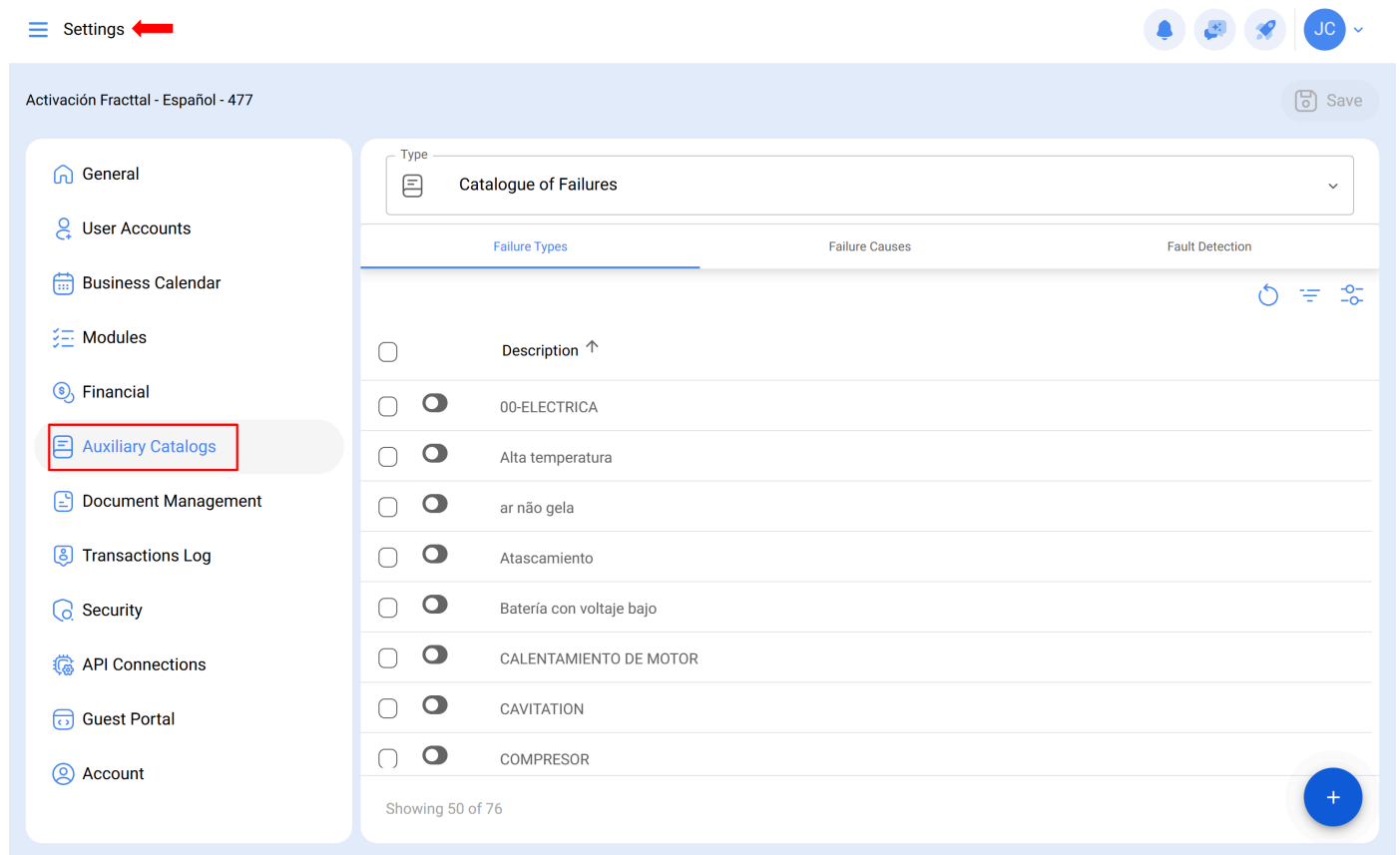
Editor

[Send](#)

Etapa 3: Configuração da conexão no Fractal One

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

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



The screenshot shows the Fractal One configuration interface. At the top left, there is a 'Settings' menu with a red arrow pointing to it. The main header displays 'Activación Fractal - Español - 477' and a 'Save' button. A sidebar on the left lists various configuration categories, with 'Auxiliary Catalogs' highlighted in a red box. The main content area is titled 'Catalogue of Failures' and features a table with columns for 'Failure Types', 'Failure Causes', and 'Fault Detection'. The table lists several failure types, each with a checkbox and a description. A blue '+' button is located at the bottom right of the table.

Failure Types	Failure Causes	Fault Detection
<input type="checkbox"/>	Description ↑	
<input type="checkbox"/>	00-ELECTRICA	
<input type="checkbox"/>	Alta temperatura	
<input type="checkbox"/>	ar não gela	
<input type="checkbox"/>	Atascamiento	
<input type="checkbox"/>	Batería con voltaje bajo	
<input type="checkbox"/>	CALENTAMIENTO DE MOTOR	
<input type="checkbox"/>	CAVITATION	
<input 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:** Seleccione **Google Sheet (Service Account)**.
- **Descrição:** Insira um nome claro para esta conexão, por exemplo, **CRIAR EQUIPAS**.

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 image shows a screenshot of the Fractal One settings interface. On the left, there is a sidebar with various settings categories like General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs, Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main area displays the 'Connections' section, which is a table with columns for 'Description' and 'Type'. Below the table, there is a form for entering OAuth2 credentials. The form fields are:

- 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')
- 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 requeridos.

The image shows a screenshot of the Fractal Hub Settings page. On the left, there is a sidebar menu with various settings categories. The main content area is titled "Activación Fractal - Español - 477" and shows a "Connections" section. A table lists various API connections, including "AFJ CONEXION GOOGLE SHEET", "AFJ - Notificaciones 09.06.2025", "Conexion con GoogleSheet Fabian", "Conexion google sheet", "Conexion Google Sheet", "CONEXIÓN GOOGLE SHEET FERNANDO", "Demo WhatsApp", "Integración googlesheet Imènec", and "Prieto LCS".

On the right, a configuration form for a Google Sheet connection is shown. The form includes fields for:

- project_id *
- private_key_id * (with a dotted line indicating a key)
- private_key * (with a dotted line indicating a key)
- client_email * (with the value "crear-equipos@fractal-one-helpcenter.iam.gserviceaccount.c")
- client_id * (with the value "client_id")
- client_x509_cert_url * (with the value "https://www.googleapis.com/robot/v1/metadata/x509/crear")
- auth_uri (with the value "https://accounts.google.com/o/oauth2/auth")
- token_uri (with the value "https://oauth2.googleapis.com/token")
- auth_provider_x509_cert_url (with the value "https://www.googleapis.com/oauth2/v1/certs")

A red box highlights the "private_key_id", "private_key", "client_email", "client_id", and "client_x509_cert_url" fields. A checkmark icon is visible in the top right corner of the form.

Clique em **Guardar**.

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)

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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

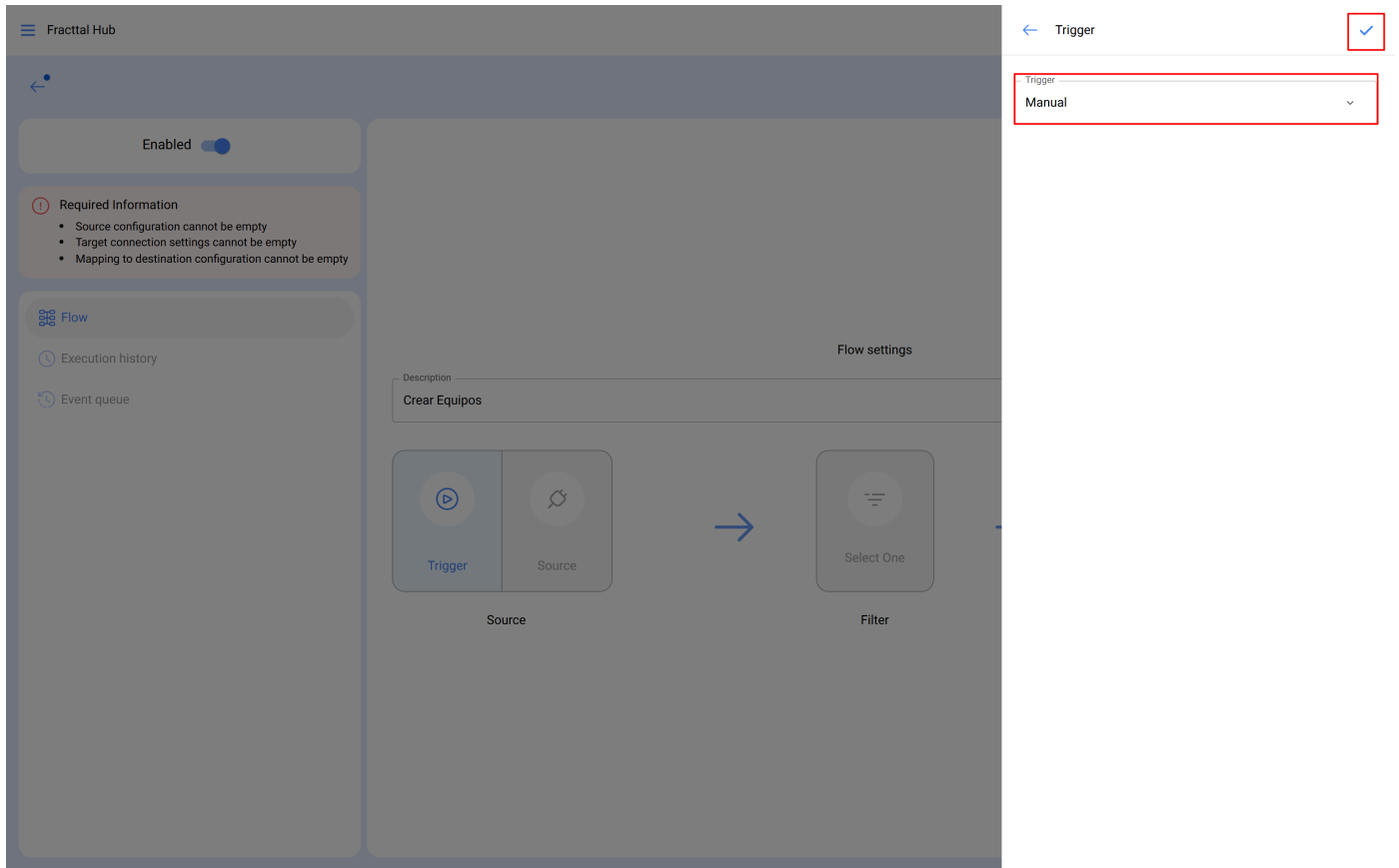
Source Filter Target

4.1. Configurar a Fonte (Source)

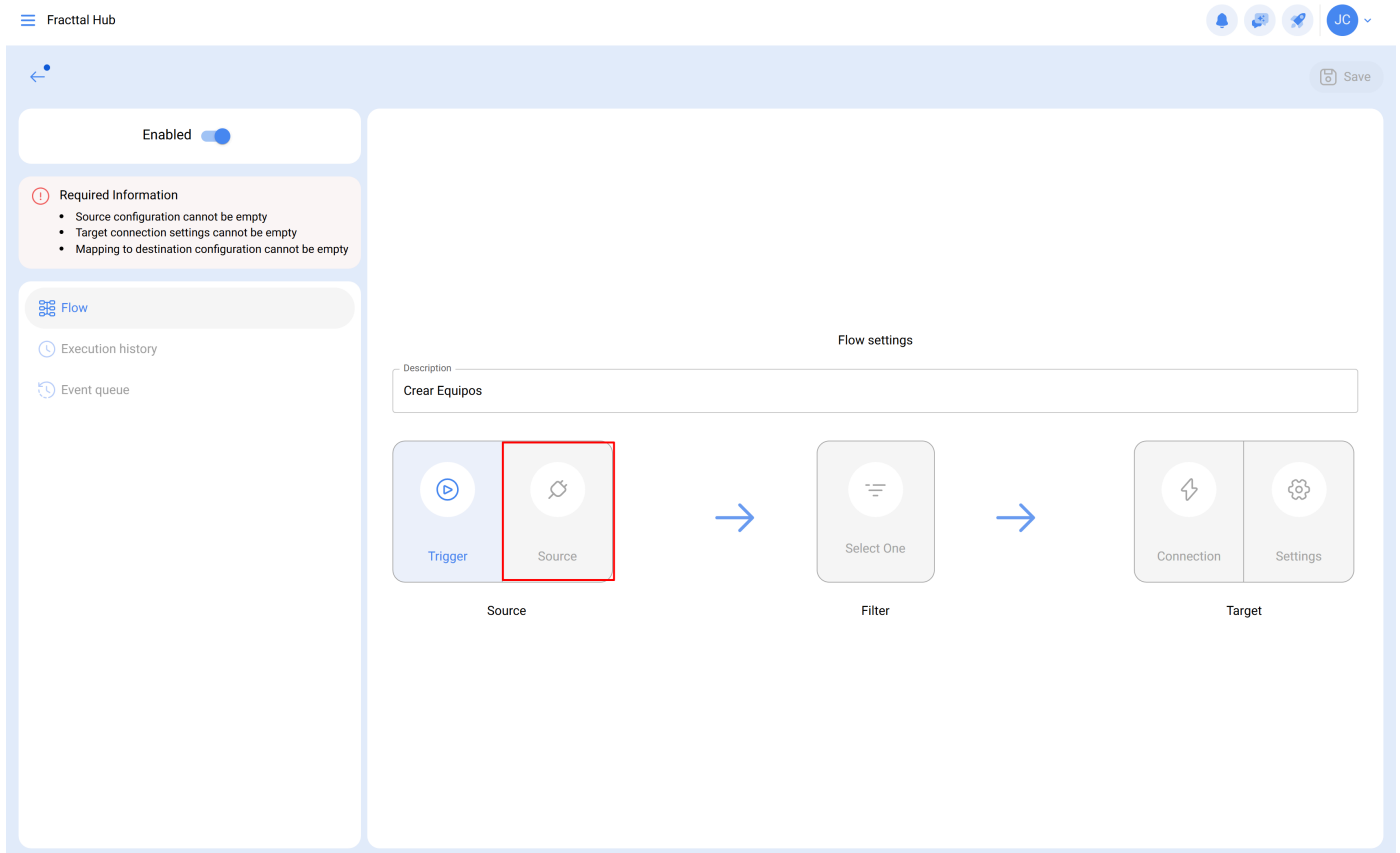
Ativador

The screenshot shows the 'Ativador' configuration page in Fractal Hub. The interface includes a top navigation bar with 'Fractal Hub' and user profile 'JC'. A left sidebar contains an 'Enabled' toggle, a 'Required Information' section with three error messages, 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 'Criar 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**. Isto permite-lhe executar o fluxo quando desejar.



Fonte:



- **Módulo:** Selecione **GoogleSheet**.
- **Conexão:** Selecione a conexão criada na Etapa 3 (**criar EQUIPAS**).
- **Ação:** Selecione **Ler**.
- **spreadsheet_id:** Cole o ID da sua folha. 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 folha (**code**, **id_type_item**, **field_1**).

The screenshot displays the Fractal Hub interface for configuring a data source. The main workspace shows a flow diagram with a 'Source' block (Google Sheet) and a 'Filter' block. A settings panel on the right is open, showing the configuration for the Google Sheet module. The settings include:

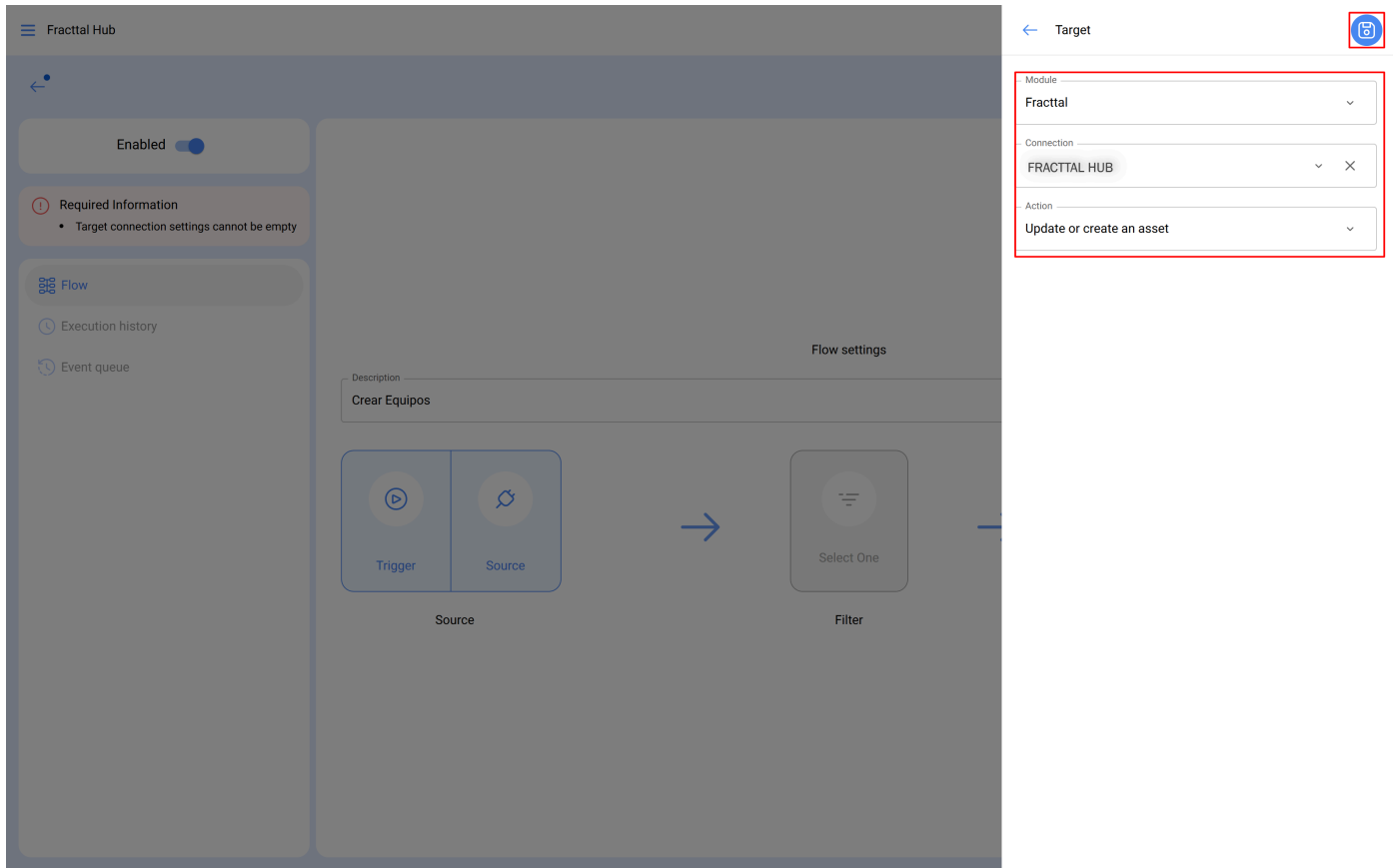
- Module:** GoogleSheet
- Connection:** Conexión Google Sheet
- Action:** Read
- spreadsheet_id:** <https://www.googleapis.com/robot/v1/metadata/x509/crear>
- sheet:** 0
- Fields:**
 - Name: code, Type: Text
 - Name: id_type_item, Type: Text
 - Name: field-1, Type: Text

4.2. Configurar o Destino (Destination)

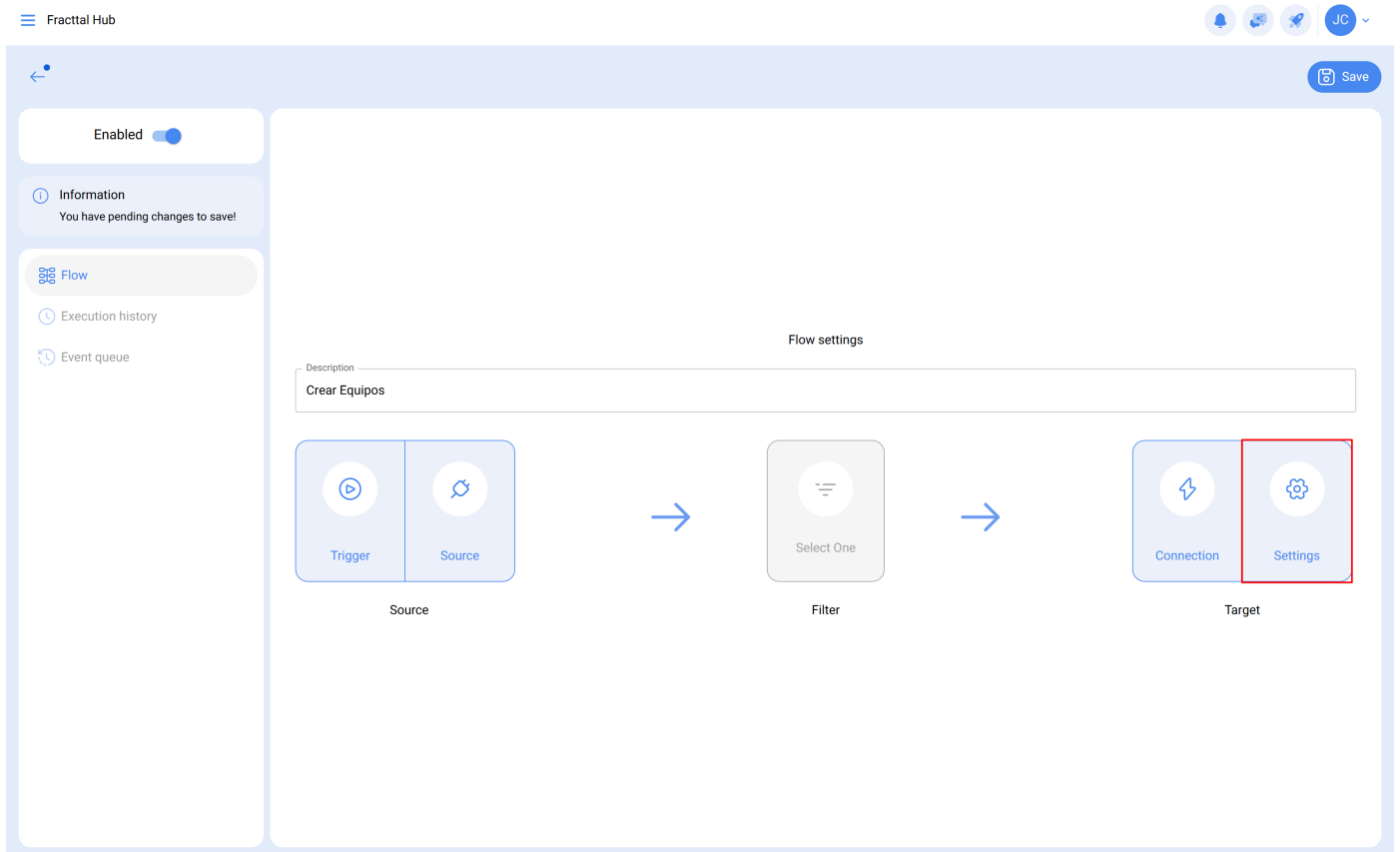
Conexão:

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 content area is titled 'Flow settings' and has a description 'Crear Equipos'. The flow is composed of three stages: 'Source' (with 'Trigger' and 'Source' options), 'Filter' (with 'Select One' option), and 'Target' (with 'Connection' and 'Settings' options). The 'Connection' option in the Target stage is highlighted with a red box. A 'Save' button is visible in the top right corner. On the left sidebar, there are options for 'Enabled' (checked), 'Required Information' (with a warning: 'Target connection settings cannot be empty'), and 'Flow' (with sub-options: 'Execution history' and 'Event queue').

- **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), assegurando-se de 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', which are highlighted with red arrows. The target fields are 'field_2', 'field_3', 'field_4', 'field_5', and 'field_6'. Each target field has a gear icon for configuration.

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 flow diagram with a 'Source' block containing 'Trigger' and 'Source' options, and a 'Filter' block with 'Select One'. On the right, a 'Fields Configuration' panel is open, showing a mapping from 'Source (Fields)' to 'Target (Fields)'. The source is 'Google Sheet' and the target is 'Fractal API'. The mapping table is as follows:

Source (Fields)	Target (Fields)
code	code
id_type_item	id_type_item
field-1	field_1
All -> Object	field_2
All -> Object	field_3
All -> Object	field_4
All -> Object	field_5
All -> Object	field_6

Clique para guardar o mapeamento e depois em **Guardar** no canto superior direito para guardar todo o fluxo.

The screenshot shows the Fractal Hub interface after the flow configuration is complete. The 'Flow settings' section now includes a 'Target' block with 'Connection' and 'Settings' options. The flow diagram shows the sequence: Source (Trigger and Source) -> Filter (Select One) -> Target (Connection and Settings). A green 'Action Done' button is visible at the bottom. In the top right corner, there is a 'Save' button and a user profile icon 'JC'.