

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.

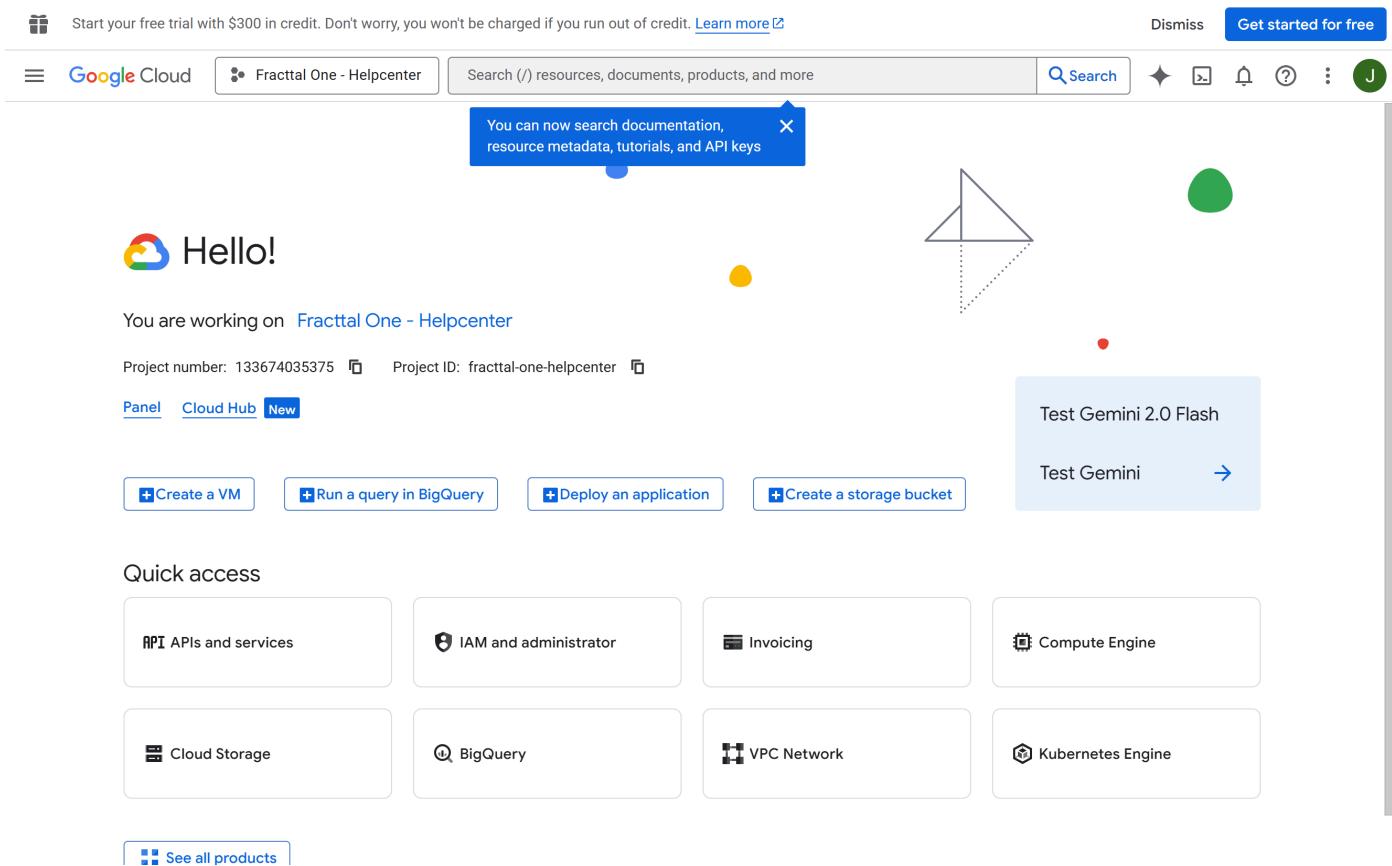
A conexão será estabelecida utilizando uma **Conta de Serviço** (Service Account) do Google Cloud Platform, que é o método recomendado para integrações de servidor a servidor, garantindo segurança e autonomia.

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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Hello!

You are working on [Fracttal One - Helpcenter](#)

Project number: 133674035375 Project ID: fracttal-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

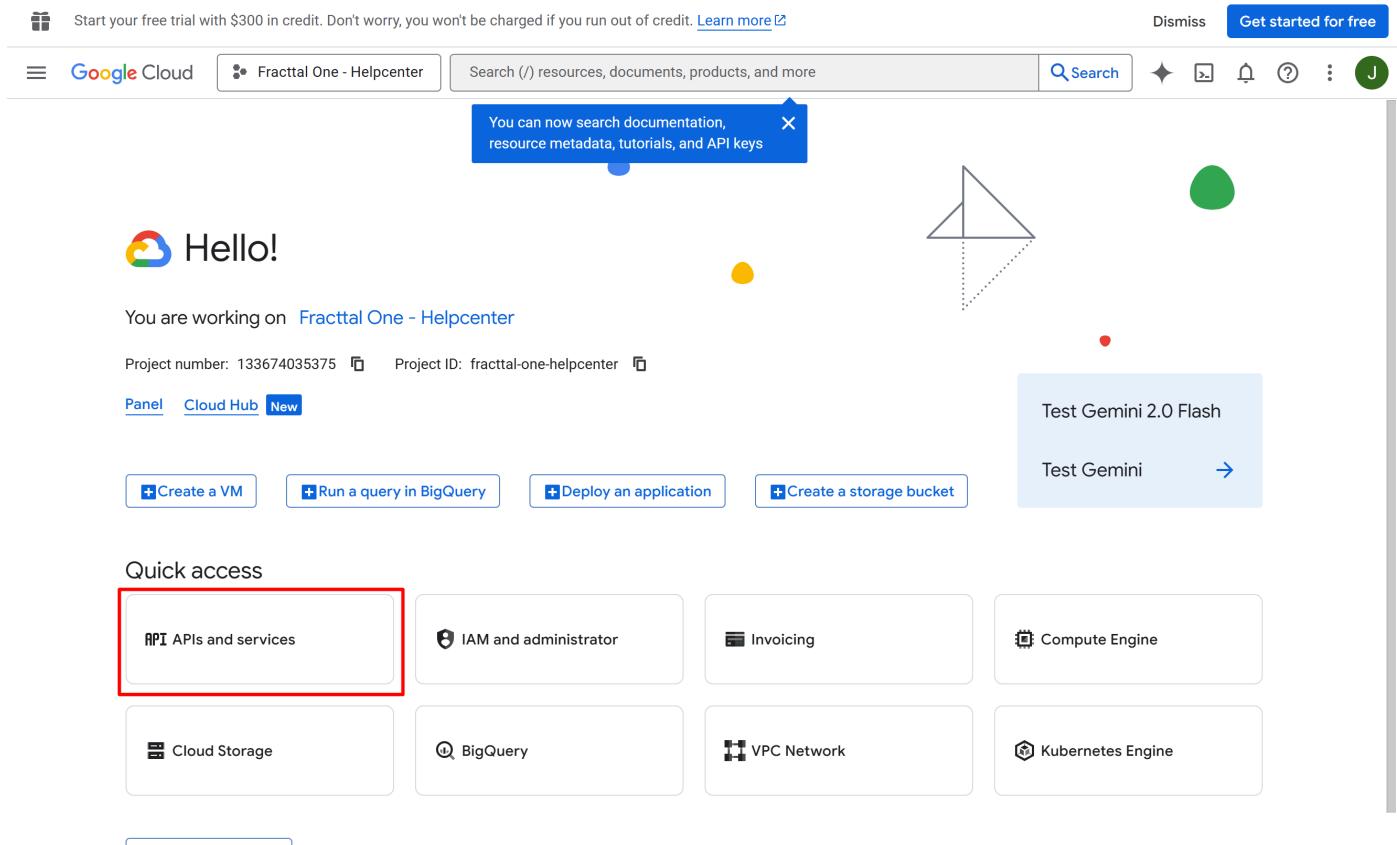
Quick access

[API APIs and services](#) [IAM and administrator](#) [Invoicing](#) [Compute Engine](#)

[Cloud Storage](#) [BigQuery](#) [VPC Network](#) [Kubernetes Engine](#)

[See all products](#)

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



The screenshot shows the Google Cloud Platform homepage. At the top, there is a banner 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](#)' message and a 'Dismiss' button. Below the banner, the 'Google Cloud' logo is on the left, and a search bar with the placeholder 'Search (/) resources, documents, products, and more' is in the center. To the right of the search bar are several icons: a magnifying glass for search, a document, a bell, a question mark, and a user profile with the letter 'J'. A blue call-to-action button 'Get started for free' is located in the top right corner. A tooltip message 'You can now search documentation, resource metadata, tutorials, and API keys' with an 'X' close button is overlaid on the search bar area. The main content area starts with a 'Hello!' message and a 'Fractal One - Helpcenter' project summary. It includes buttons for 'Create a VM', 'Run a query in BigQuery', 'Deploy an application', and 'Create a storage bucket'. Below this is a 'Quick access' section with several cards: 'API APIs and services' (which is highlighted with a red box), 'IAM and administrator', 'Invoicing', 'Compute Engine', 'Cloud Storage', 'BigQuery', 'VPC Network', and 'Kubernetes Engine'. At the bottom of the quick access section is a 'See all products' button.

Clique em **+** CRIAR CREDENCIAIS e selecione a opção **Conta de serviço**.

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Dismiss [Get started for free](#)

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API APIs and services Credentials [+ Create credentials](#) Delete [Restore deleted credentials](#)

Enabled APIs and Services Library [Credentials](#) API Keys OAuth Permission Screen Page usage agreements

Create credentials to a Remember API Key Identify your project using a simple API key to check quota and access OAuth client ID Requests user permission so the application can access that user's data. Service account Uses bot accounts to enable app-level authentication between servers. Help me choose Asks a few questions to help you decide what type of credential to use No API key to display

OAuth 2.0 Client IDs [Name](#) [Date of creation](#) Type Client ID Actions

No OAuth client to display

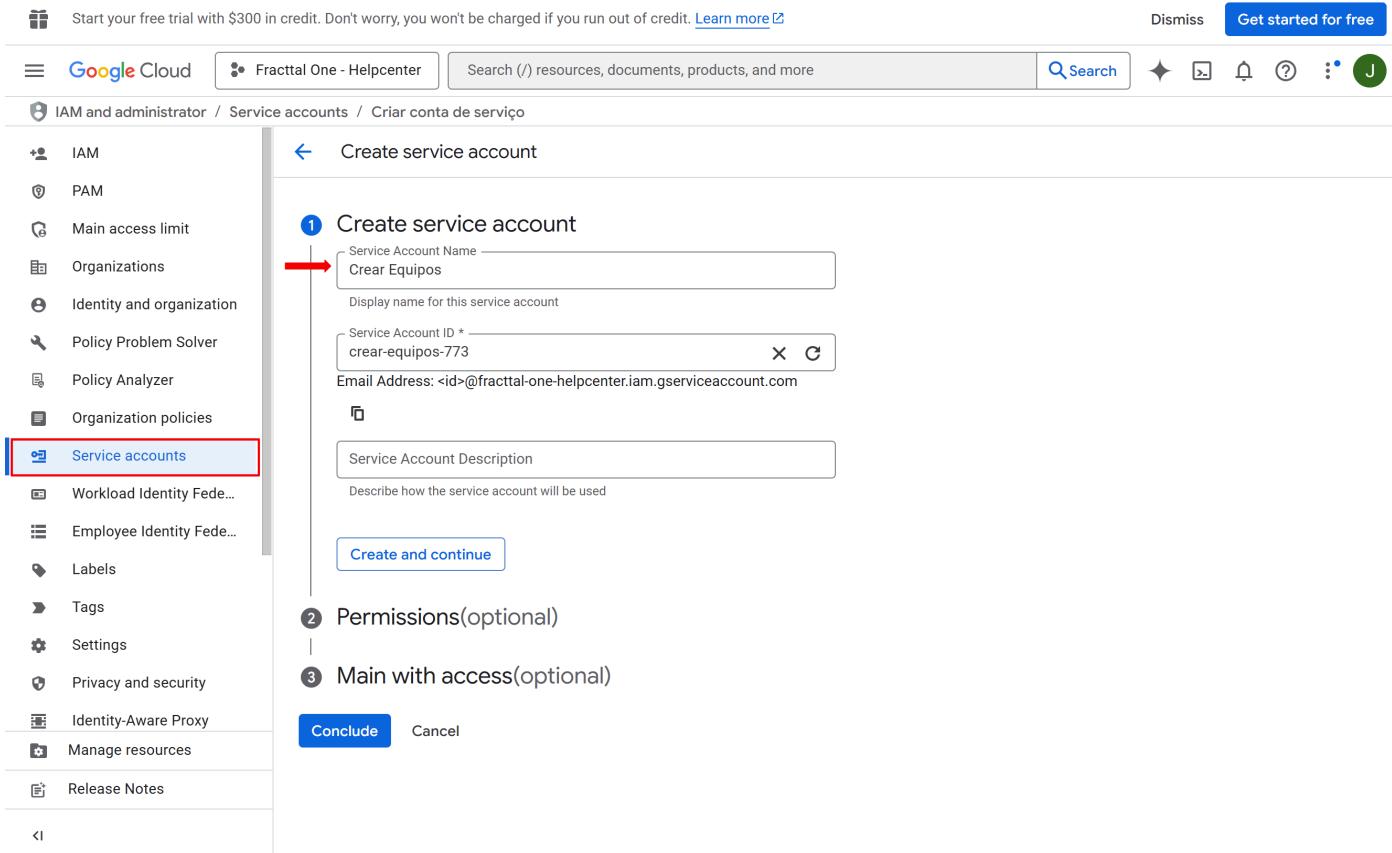
Service accounts [Manage Service Accounts](#) [E-mail](#) Name Actions

No service account to display

Displaying project "Fractal One - Helpcenter" in organization "No organization" [X](#)

Preencha os seguintes campos:

- **Nome da conta de serviço:** Atribua um nome descritivo.
- **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 Crear Equipos Display name for this service account

Service Account ID * crear-equipos-773 x C

Email Address: `<id>@fracttal-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 Key Date of creation Expiration date

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

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

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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

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 preparamos 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 Fracttal 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	id_type_item	field_1
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.

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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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

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

Restricted • Only people added can open with this link

Assign the Editor permission

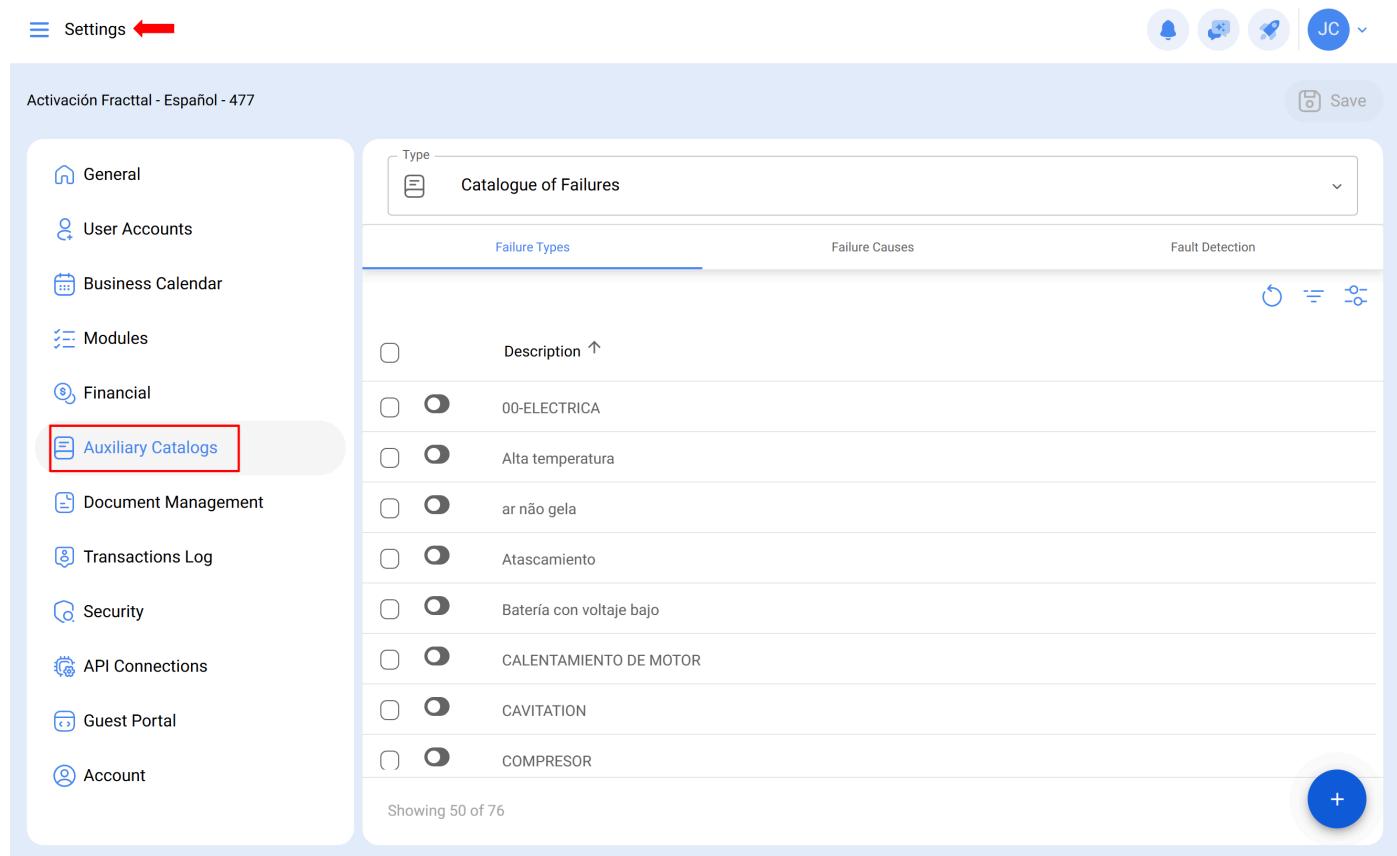
Editor

Send

Etapa 3: Configuração da conexão no Fracttal One

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

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



Activación Fracttal - Español - 477

Save

Type: Catalogue of Failures

Failure Types	Failure Causes	Fault Detection
<input type="checkbox"/> Description ↑		
<input type="checkbox"/> <input checked="" type="radio"/> 00-ELECTRICA		
<input type="checkbox"/> <input checked="" type="radio"/> Alta temperatura		
<input type="checkbox"/> <input checked="" type="radio"/> ar não gela		
<input type="checkbox"/> <input checked="" type="radio"/> Atascamiento		
<input type="checkbox"/> <input checked="" type="radio"/> Batería con voltaje bajo		
<input type="checkbox"/> <input checked="" type="radio"/> CALENTAMIENTO DE MOTOR		
<input type="checkbox"/> <input checked="" type="radio"/> CAVITATION		
<input type="checkbox"/> <input checked="" type="radio"/> 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

	Type
<input type="checkbox"/>	AFJ CONEXION GOOGLE SHEET
<input type="checkbox"/>	AFJ - Notificaciones 09.06.2025
<input type="checkbox"/>	Conexion con GoogleSheet Fabian
<input type="checkbox"/>	Conexion google sheet
<input type="checkbox"/>	Conexión Google Sheet
<input type="checkbox"/>	CONEXIÓN GOOGLE SHEET FERNANDO
<input type="checkbox"/>	Demo WhatsApp
<input type="checkbox"/>	Integración googlesheet Imènec
<input type="checkbox"/>	Proyecto ICS

Showing 11 of 11



Configure os seguintes campos:

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

Type  Connections

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

Description: **Crear Equipos**

Type: **service_account**

project_id*: **.....**

private_key_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'

- **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 Fracttal One:

The screenshot shows the Fracttal One 'Connections' settings page. The 'Connections' list contains several entries, and the 'Auxiliary Catalogs' section is highlighted. A modal window on the right shows the required fields for a new connection: 'private_key*', 'client_email*', 'client_id*', and 'client_x509_cert_url*'. These fields are highlighted with a red border. Below the modal, the 'auth_uri' and 'token_uri' fields are shown with their respective URLs.

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

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 ↑

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

Proyecto ICS

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



Business Intelligence

Cloud Disk

Requests

Online help

[Support](#) [Create ticket](#)

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)

 Conexion Google Sheet

Google Sheet (Service Account)

 CONEXIÓN GOOGLE SHEET FERNANDO

Google Sheet (Service Account)

 Demo WhatsApp

WhatsApp

 Integración googlesheet Imènec

Google Sheet (Service Account)

 Proyecto LCS

Google Sheet (Service Account)

Showing 11 of 11



Clique no ícone + para criar um novo fluxo.

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	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

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

Source → Filter → Target

Trigger

Source

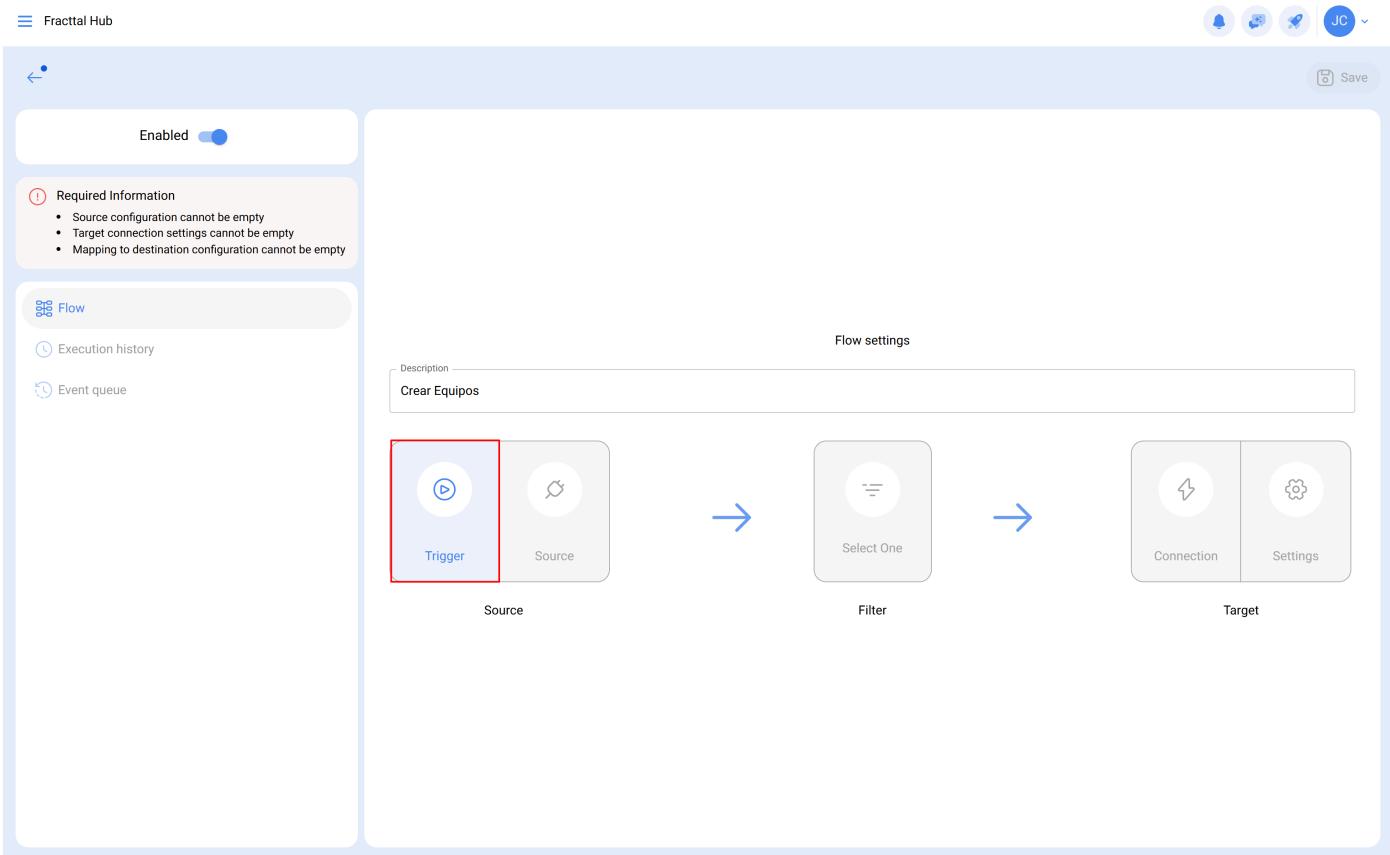
Select One

Connection

Settings

4.1. Configurar a Fonte (Source)

Ativador



Enabled

Required Information

- Source configuration cannot be empty
- Target connection settings cannot be empty
- Mapping of destination configuration cannot be empty

Flow

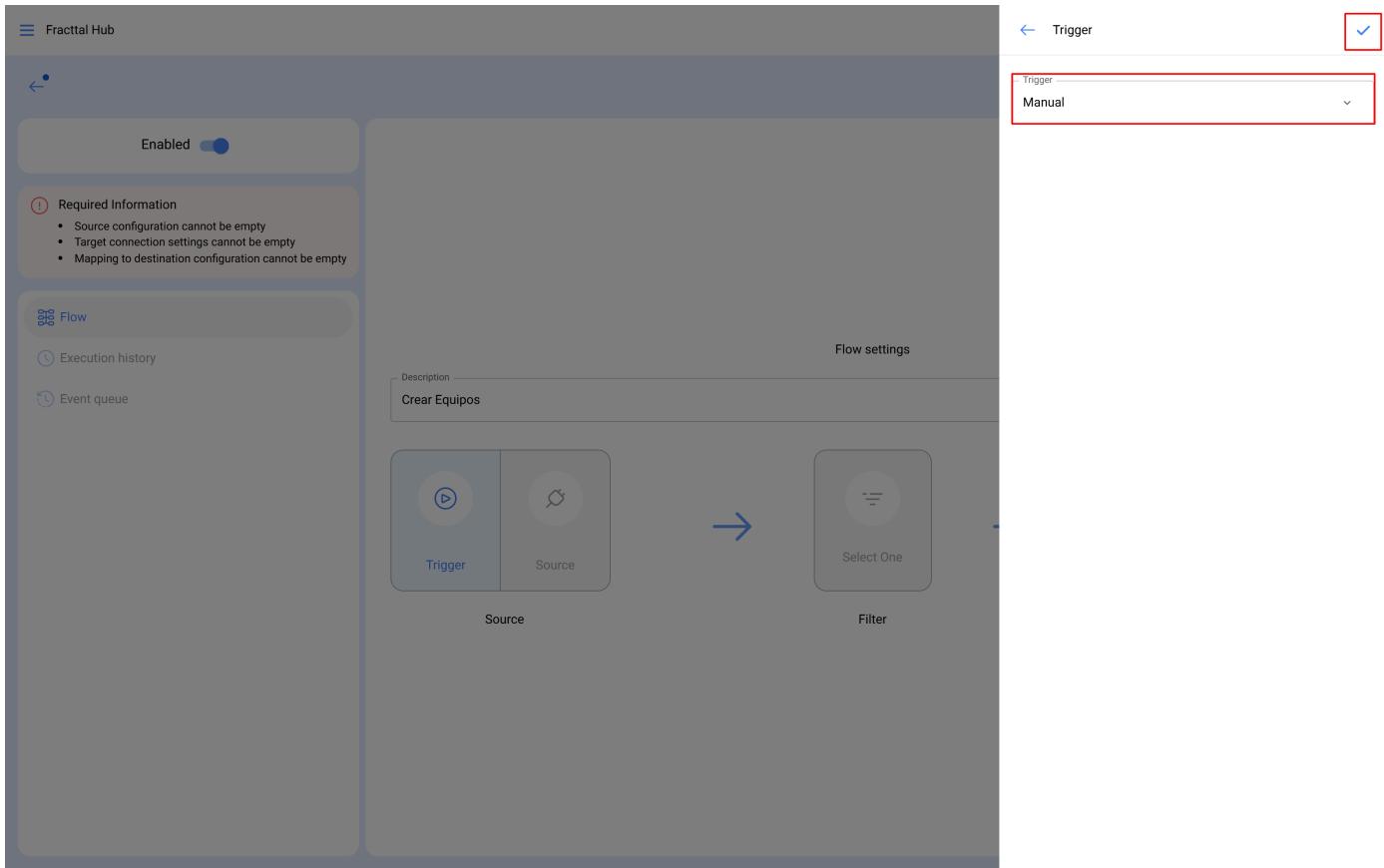
Description: Crear Equipos

Source: Trigger

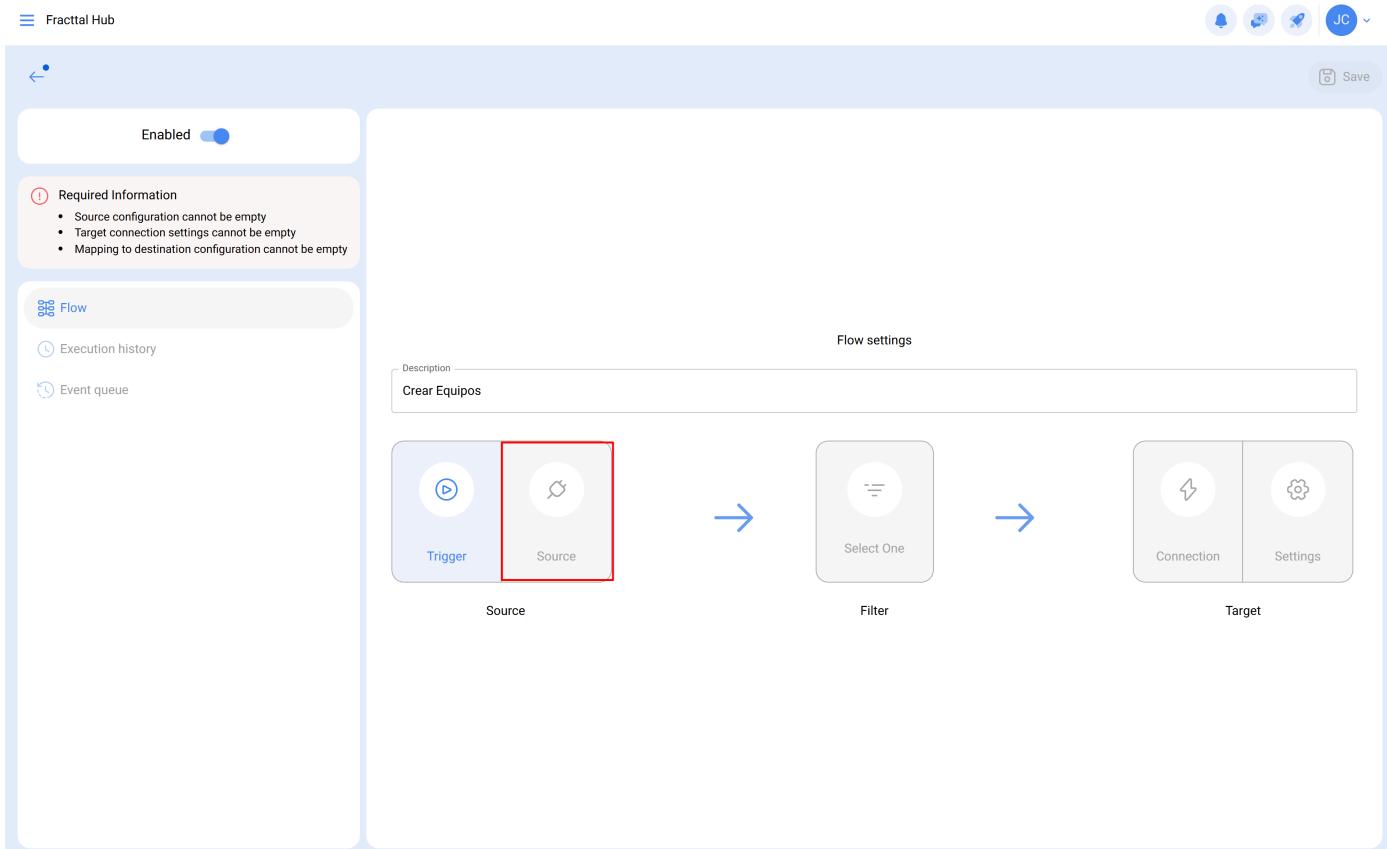
Filter: Select One

Target: Connection, Settings

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 shows the Fractal Hub interface with a flow configuration for reading data from a Google Sheet.

Flow Settings:

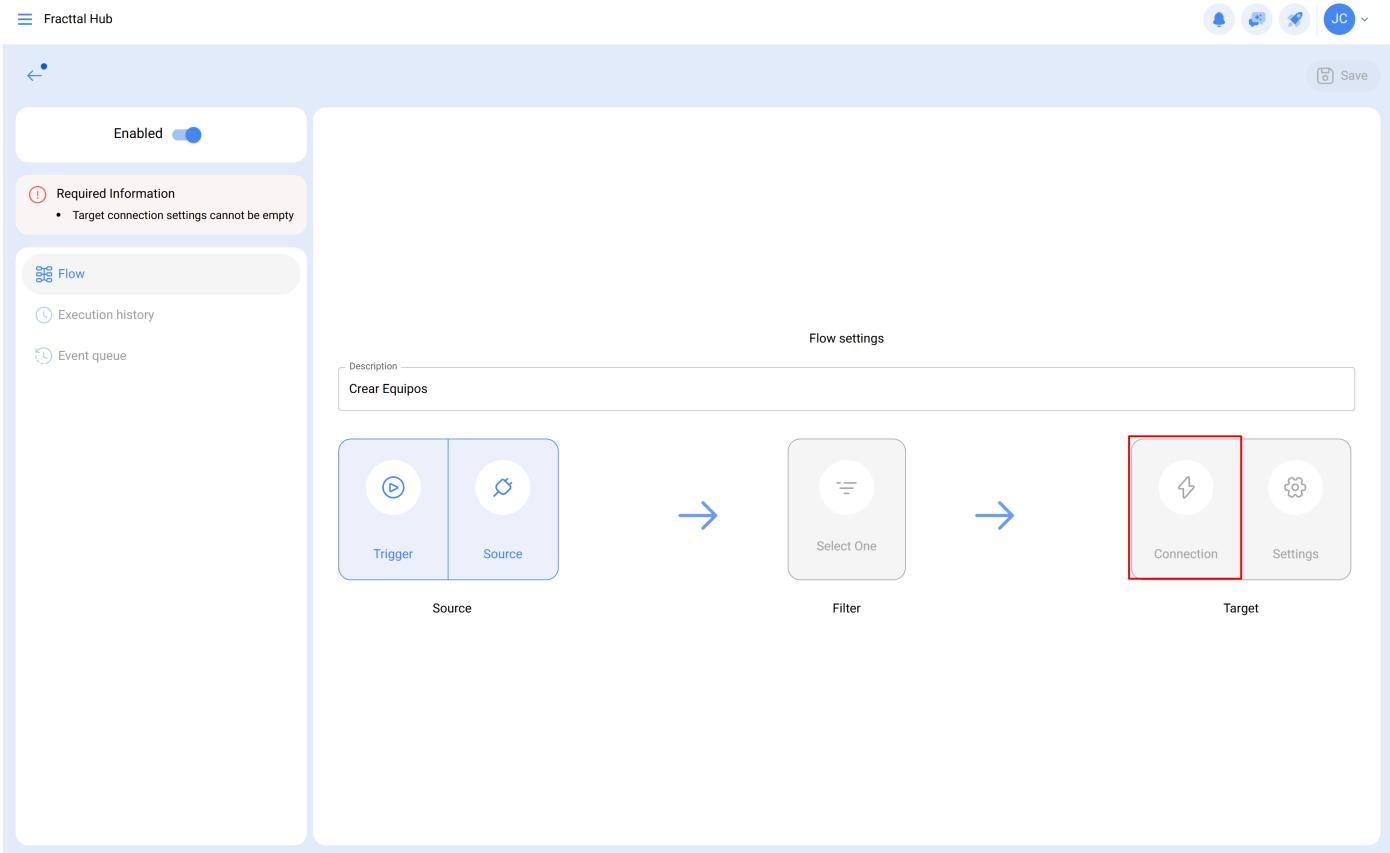
- Description:** Crear Equipos
- Trigger:** Trigger
- Source:** Source
- Filter:** Select One

Source Configuration (Module: GoogleSheet):

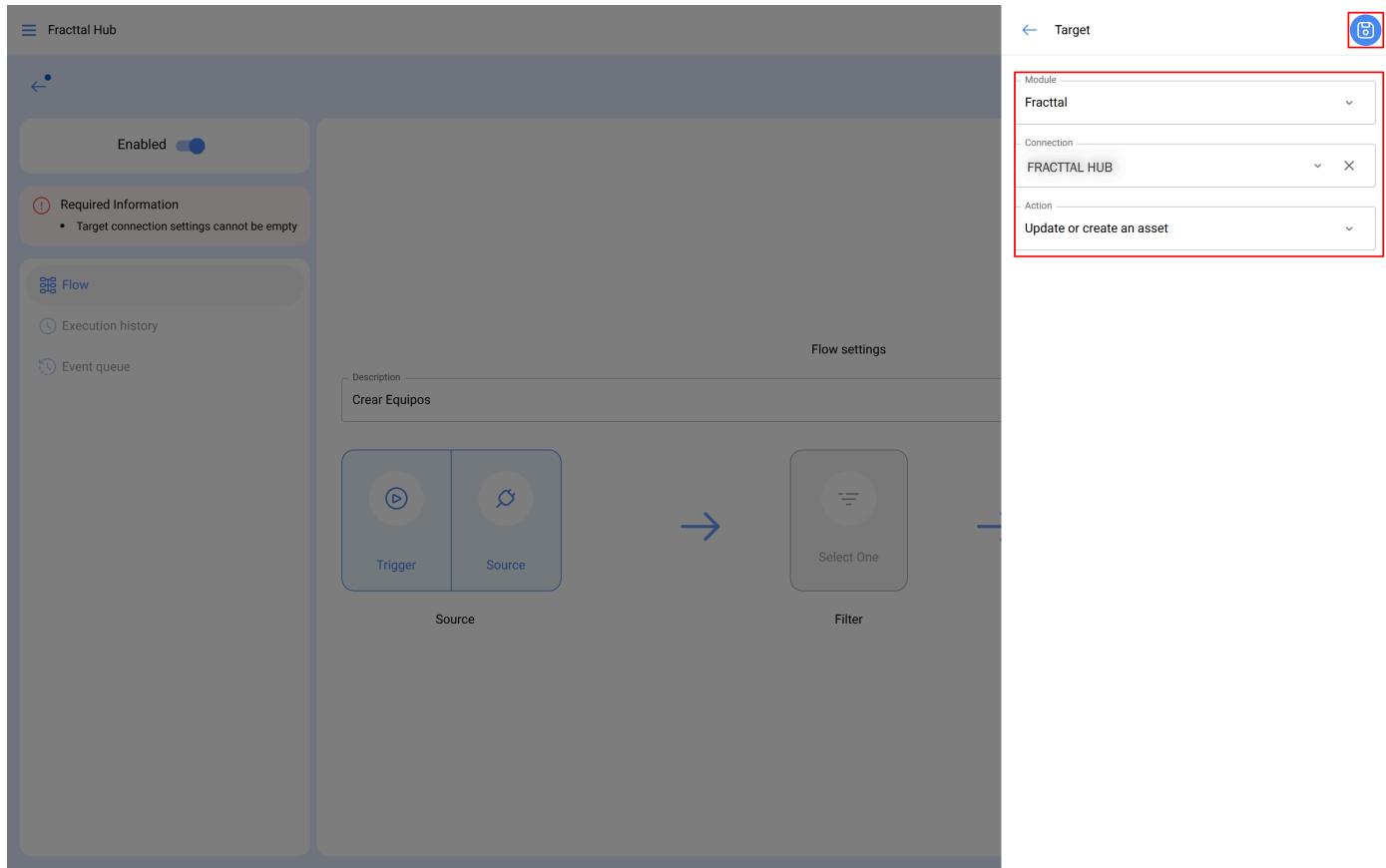
- Module:** GoogleSheet
- Connection:** Conexión Google Sheet
- Action:** Read
- spreadsheet_id:** `https://www.googleapis.com/robot/v1/metadata/x509/crear`
- sheet:** `0`
- Fields:**
 - Name: `code` Type: Text
 - Name: `id_type_item` Type: Text
 - Name: `field-1` Type: Text

4.2. Configurar o Destino (Destination)

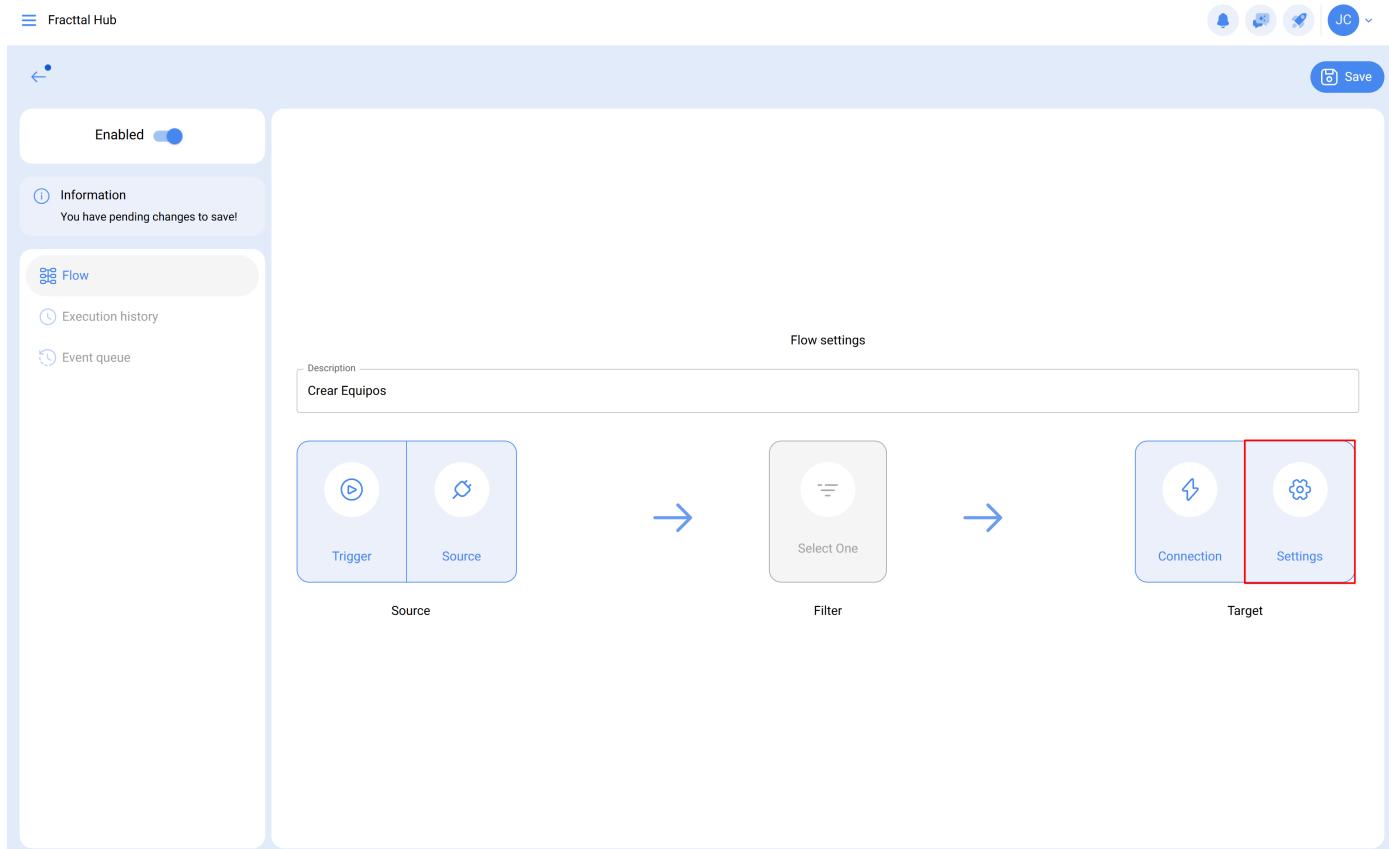
Conexão:



- **Módulo:** Selecione **Fractal**.
- **Conexão:** Selecione **FRACTTAL HUB**.
- **Ação:** Selecione **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:

Source (Fields)		Target (Fields)
<input type="checkbox"/> All -> Object	code	→ field_1
<input type="checkbox"/> All -> Object	id_type_item	→ field_2
<input type="checkbox"/> All -> Object	field_1	→ field_3
<input type="checkbox"/> All -> Object	field_2	→ field_4
<input type="checkbox"/> All -> Object	field_3	→ field_5
<input type="checkbox"/> All -> Object	field_4	→ field_6

Fields Configuration

Source: Google Sheet → Target: Fractal API

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

Enabled

Flow

Execution history

Event queue

Description: Crear Equipos

Trigger

Source

Filter

Connection

Settings

Action Done