

Comment créer une équipe en utilisant Fractal Hub ?

help.fractal.com/hc/fr/articles/37609623465229-Comment-cr er-une- quipe-en-utilisant-Fractal-Hub

L'int gration avec Fractal Hub facilite l'incorporation contr l e de nouveaux  quipements sur la plateforme, garantissant que les donn es suivent une structure standardis e. Ce guide explique comment configurer un flux s curis  pour cr er des  quipes dans Fractal One en utilisant une feuille de calcul comme source de donn es.

La connexion sera  tablie en utilisant un **Compte de Service** (Service Account) de Google Cloud Platform, qui est la m thode recommand e pour les int grations serveur   serveur, garantissant s curit  et autonomie.

 tape 1 : Configuration dans Google Cloud Platform (GCP)

La premi re  tape consiste   cr er les identifiants n cessaires sur la plateforme Google pour permettre   Fractal One d'acc der   votre feuille de mani re s curis e.

1.1. Acc der au compte de service

Acc dez   la Console de Google Cloud Platform.

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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Dans le menu de navigation, allez à **APIs et services > Identifiants**.

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Cliquez sur **+ CRÉER DES IDENTIFIANTS** et sélectionnez l'option **Compte de service**.

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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 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

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" ×

Remplissez les champs suivants :

- **Nom du compte de service** : Donnez un nom descriptif.
- **ID du compte de service** : Généralement généré automatiquement à partir du nom.

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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 service account

1 Create service account

Service Account Name
Creat 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

Cliquez sur "Terminé" pour finaliser la création de l'identifiant.

Une fois créé, il sera nécessaire de l'activer pour qu'il puisse être utilisé dans les processus d'intégration.

1.2. Générer la Clé d'Accès (JSON)

- Sur l'écran des **Identifiants**, localisez le compte de service nouvellement créé et cliquez sur son adresse e-mail.
- Allez à l'onglet **CLÉS**.
- Cliquez sur **AJOUTER UNE CLÉ** et sélectionnez **Créer une nouvelle clé**.

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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	

Choisissez le type **JSON** (recommandé) et cliquez sur **CRÉER**.

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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**

Un fichier `.json` sera automatiquement téléchargé sur votre ordinateur. Conservez-le dans un endroit sûr, car il contient les identifiants d'accès et sera nécessaire à l'Étape 3.

Étape 2 : Préparation de la feuille de Google Sheets

Nous allons maintenant préparer la feuille qui servira de source de données.

Ouvrez votre feuille de Google Sheets.

Structure des en-têtes:

Dans la première ligne, assurez-vous que les noms des colonnes correspondent exactement aux paramètres requis par l'API de Fractal pour la création d'actifs. Les champs obligatoires sont :

- `code` : Code unique de l'actif.
- `id_type_item` : ID numérique du type d'actif (par exemple : `2` pour Équipements, selon la documentation de l'API).
- `field_1` : Correspond au **Nom** de l'actif.

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

Partager la feuille:

Il est crucial d'accorder l'autorisation d'accès au Compte de Service que nous avons créé.

Dans GCP, copiez l'e-mail de votre compte de service.

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← 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

- Retournez à la feuille de calcul, cliquez sur **Partager**.
- Collez l'e-mail dans le champ de partage.
- Attribuez l'autorisation de **Éditeur**.
- Cliquez sur **Envoyer/Partager**.

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

Étape 3 : Configuration de la connexion dans Fractal One

Avec les identifiants et la feuille prêts, nous allons configurer le pont de communication dans Fractal One.

Dans Fractal One, naviguez vers **Configuration > Catalogues Auxiliaires**.

Activación Fractal - Español - 477

Settings ←

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

<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

+

- Dans le sélecteur de catalogues, choisissez **Connexions**.
- Cliquez sur l'icône **+** pour ajouter une nouvelle connexion.

- 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



Configurez les champs suivants :

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

← ↑ ✓

Type
Google Sheet (Service Account)

Description
Crear Equipos

Type
service_account

project_id *

private_key_id *

private_key *

client_email *

client_id *

- **Type** : Sélectionnez **Google Sheet (Compte de Service)**.
- **Description** : Entrez un nom clair pour cette connexion, par exemple, **CRÉER ÉQUIPES**.

Complétez les identifiants :

Ouvrez le fichier **.json** téléchargé à l'Étape **1.2** et copiez-collez le contenu de chaque champ dans le formulaire de 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 is open for adding a new connection, 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**
- ...et les autres champs requis.

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 Imè nec	Google Shee
<input type="checkbox"/> Prieto LCS	Google Shee

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project_id *

private_key_id *

private_key *

client_email *

client_id *

client_x509_cert_url *

auth_uri

token_uri

auth_provider_x509_cert_url

Cliquez sur **Enregistrer**.

Étape 4 : Créer le flux dans l'Automatisateur (Fractal Hub)

Enfin, nous allons créer le flux d'automatisation qui lira les données et créera les actifs.

Allez au menu principal et sélectionnez **Automatisateur > 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

Cliquez sur l'icône + pour créer un nouveau flux.

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	Proieto 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

Donnez un nom au flux.

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

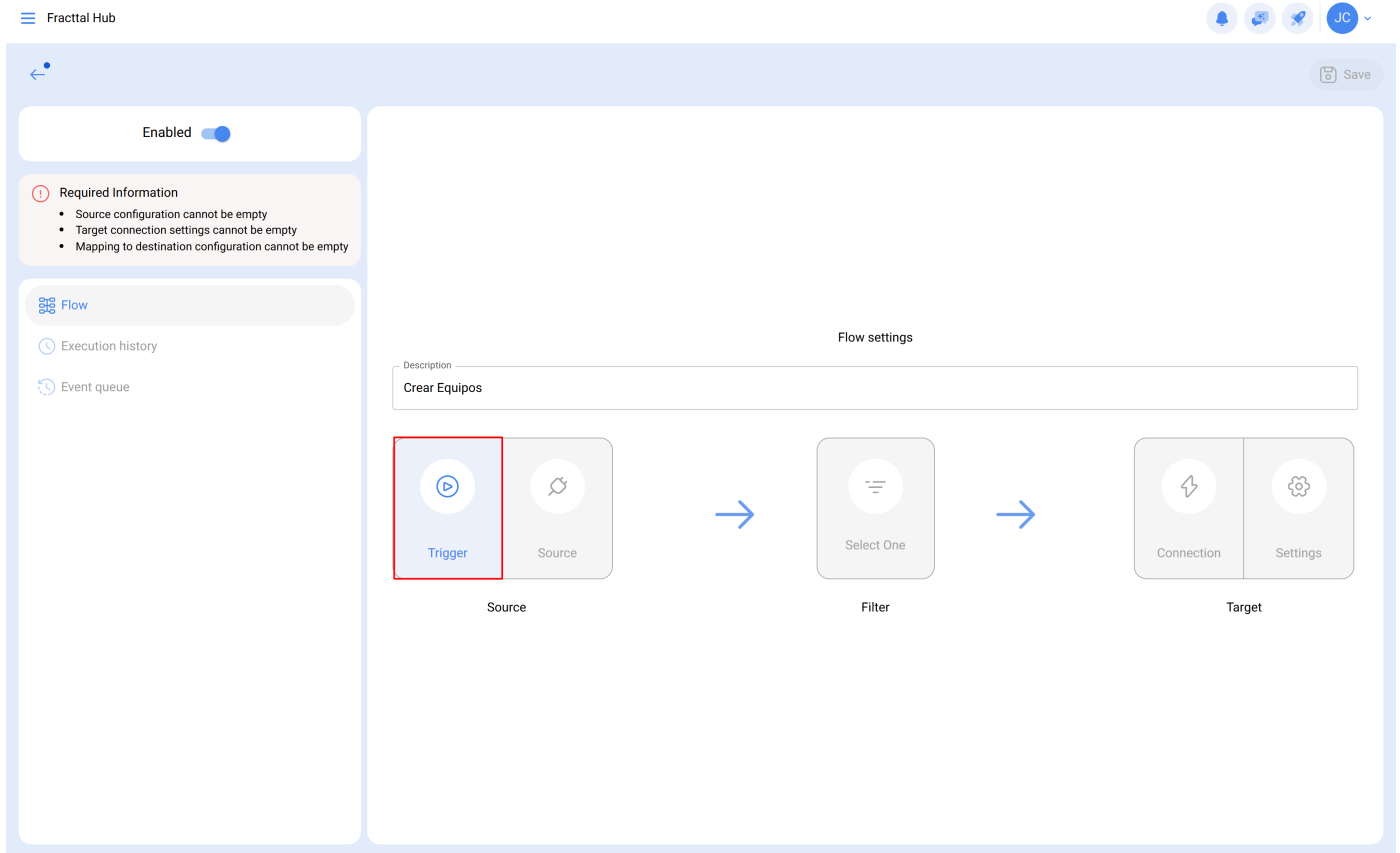
Filter

Connection Settings

Source Filter Target

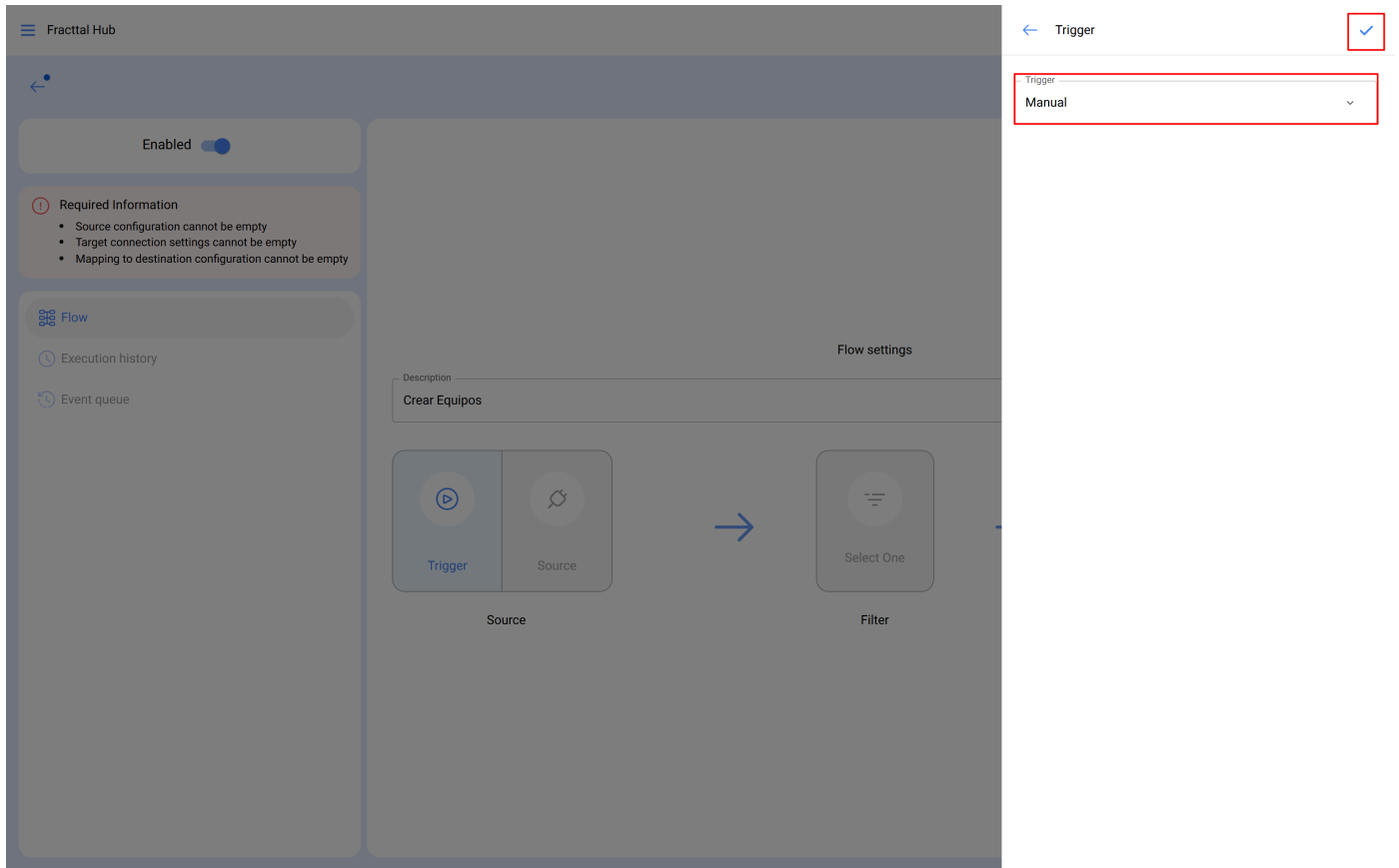
4.1. Configurer la Source (Source)

Déclencheur

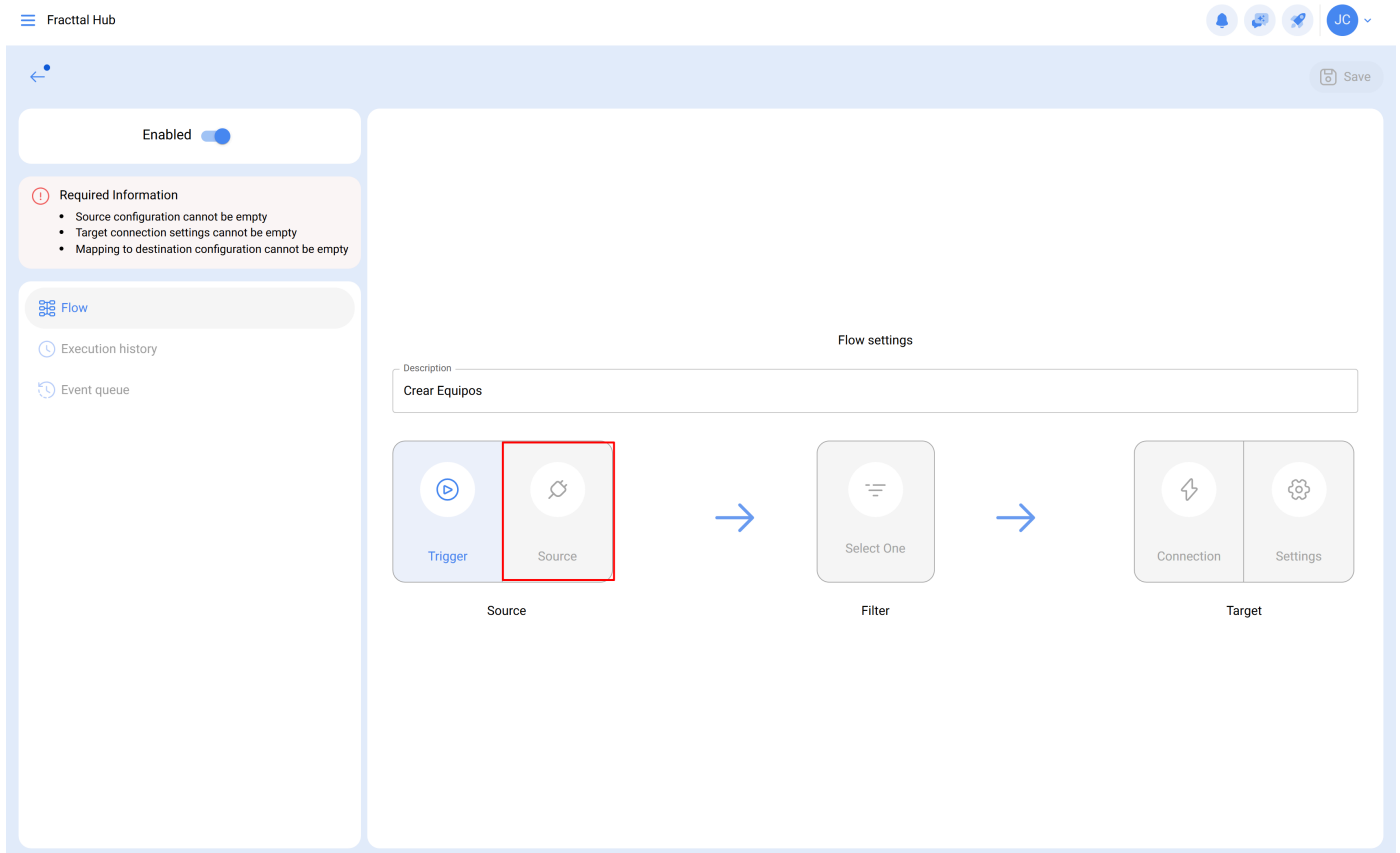


The screenshot shows the Fractal Hub interface for configuring a flow. The top left corner displays 'Fractal Hub' and a navigation menu. The top right corner shows user profile 'JC' and a 'Save' button. The main area is titled 'Déclencheur' and contains a flow configuration panel. On the left, there is a sidebar with 'Enabled' (checked), 'Required Information' (listing configuration requirements), and 'Flow' settings (Execution history, Event queue). The main flow configuration area is titled 'Flow settings' and has a description 'Crear Equipos'. The flow is visualized as a sequence of steps: 'Source' (Trigger and Source), 'Filter' (Select One), and 'Target' (Connection and Settings). The 'Trigger' button is highlighted with a red box.

Pour cet exemple, sélectionnez **Manuel**. Cela vous permet d'exécuter le flux quand vous le souhaitez.



Source :



- **Module** : Sélectionnez **GoogleSheet**.
- **Connexion** : Sélectionnez la connexion créée à l'Étape 3 (**CRÉER ÉQUIPES**).
- **Action** : Sélectionnez **Lire**.
- **spreadsheet_id** : Collez l'ID de votre feuille. Vous pouvez le trouver dans l'URL (le code long entre **/d/** et **/edit**).
- **sheet** : Entrez **0** pour lire le premier onglet (la numérotation commence à 0).
- **Champs** : Ajoutez les noms des en-têtes de votre feuille (**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 (containing 'Trigger' and 'Source' icons) and a 'Filter' block (containing a 'Select One' icon). A 'Flow settings' panel is open on the right, showing the configuration for the 'Source' block. The settings are as follows:

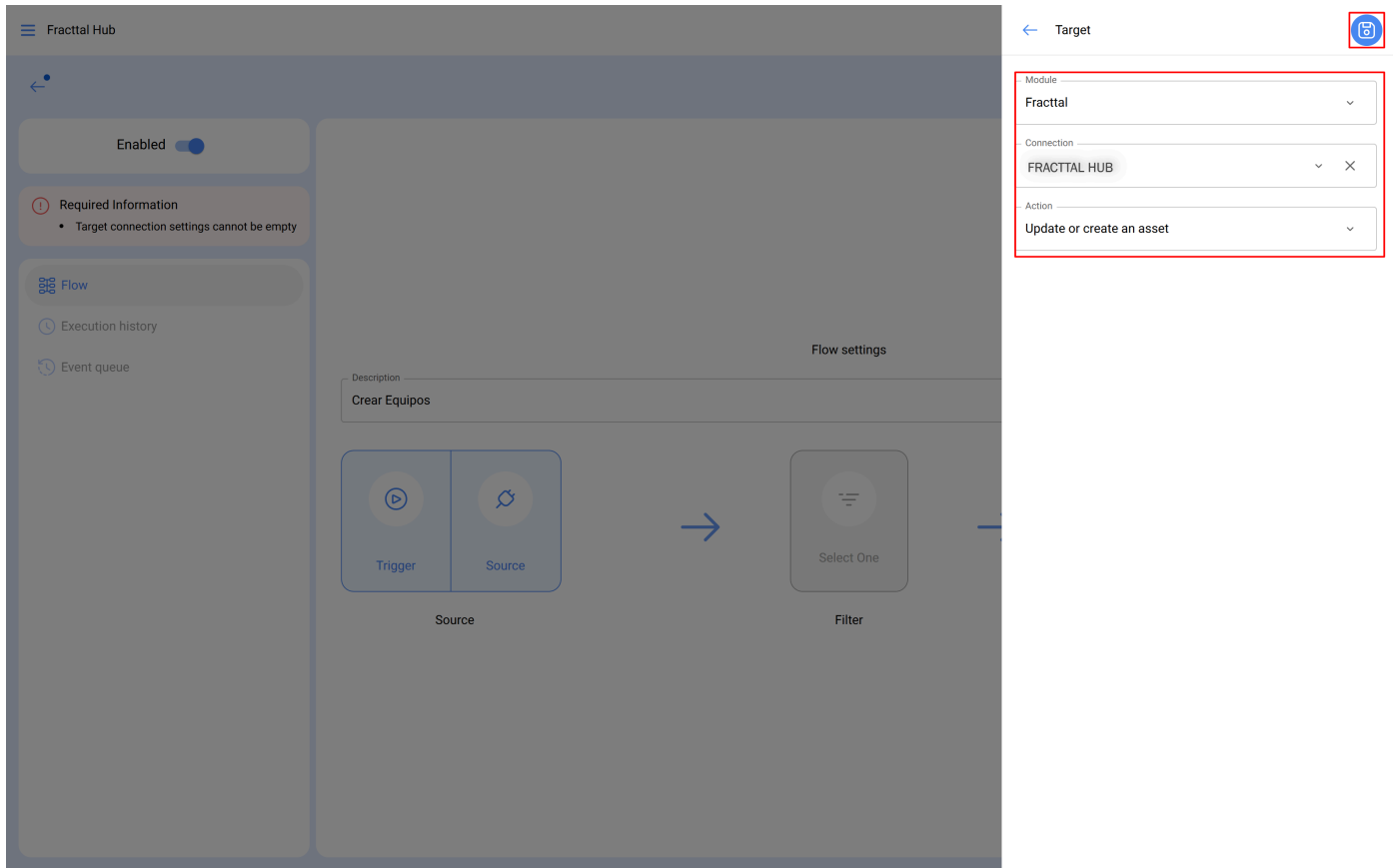
- Module:** GoogleSheet
- Connection:** Conexión Google Sheet
- Action:** Read
- spreadsheet_id:** https://www.googleapis.com/robot/v1/metadata/x509/crear
- sheet:** 0
- Fields:**
 - Name: code, Type: Text
 - Name: id_type_item, Type: Text
 - Name: field-1, Type: Text

4.2. Configurer la Destination (Destination)

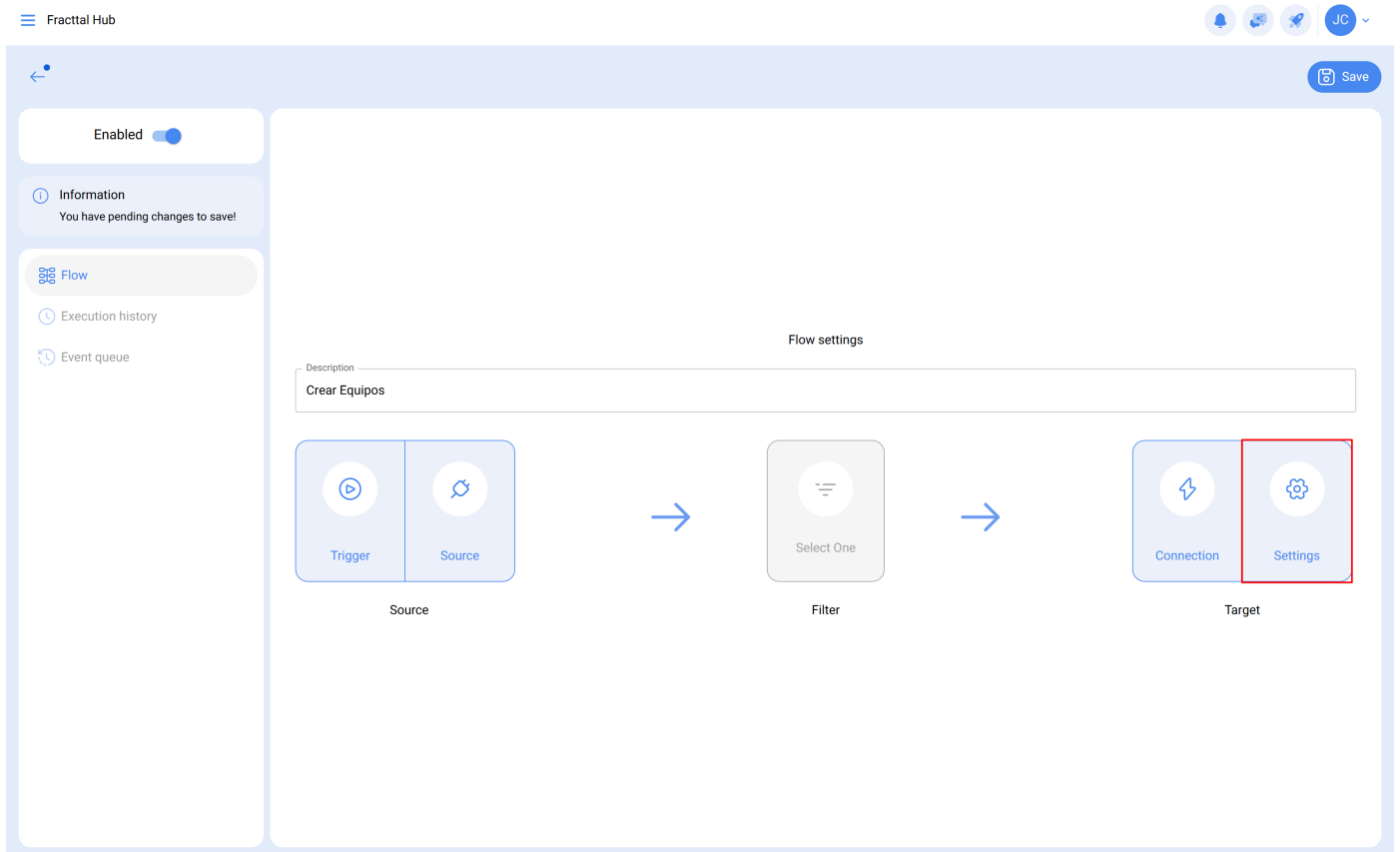
Connexion :

The screenshot shows the 'Flow settings' configuration page in Fractal Hub. The page is titled 'Crear Equipos'. The flow is defined by three stages: Source, Filter, and Target. The Source stage has two options: Trigger and Source. The Filter stage has one option: Select One. The Target stage has two options: Connection and Settings. The 'Connection' option in the Target stage is highlighted with a red box. The interface also includes a sidebar with navigation options like 'Flow', 'Execution history', and 'Event queue', and a top navigation bar with 'Fractal Hub' and user information.

- **Module** : Sélectionnez **Fractal**.
- **Connexion** : Sélectionnez **FRACTTAL HUB**.
- **Action** : Sélectionnez **Mettre à jour ou créer un actif**.



Configuration

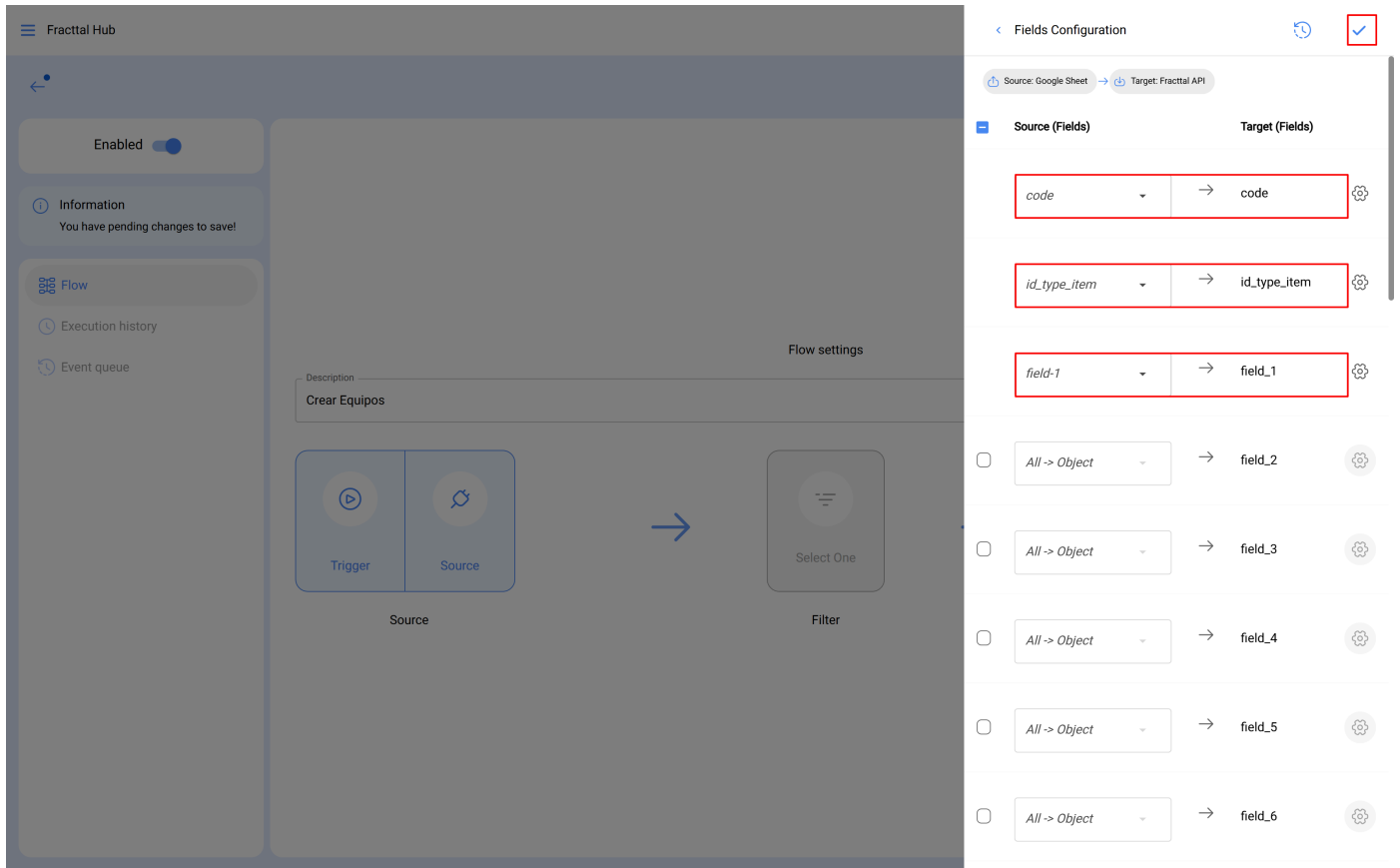


- Cliquez sur l'icône d'engrenage (Configuration).
- Mappez les champs source (Google Sheet) avec ceux de destination (API de Fractal), en vous assurant qu'ils correspondent :

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' section with 'Trigger' and 'Source' options, and a 'Filter' section with 'Select One' option. A blue arrow points from the Source to the Filter. On the right, a 'Fields Configuration' panel is open, showing a mapping between 'Source (Fields)' and 'Target (Fields)'. The source is 'Google Sheet' and the target is 'Fractal API'. The mapping table is as follows:

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

Red arrows point from the 'code', 'id_type_item', and 'field_1' target fields back to their respective source dropdowns. Each row in the table has a gear icon for configuration.



Cliquez pour enregistrer le mappage puis sur **Enregistrer** dans le coin supérieur droit pour enregistrer tout le flux.

