

Comment créer une équipe en utilisant Fracttal Hub ?

 help.fracttal.com/hc/fr/articles/37609623465229-Comment-créer-une-équipe-en-utilisant-Fracttal-Hub

L'intégration avec Fracttal Hub facilite l'incorporation contrôlée de nouveaux équipements sur la plateforme, garantissant que les données suivent une structure standardisée. Ce guide explique comment configurer un flux sécurisé pour créer des équipes dans Fracttal One en utilisant une feuille de calcul comme source de données.

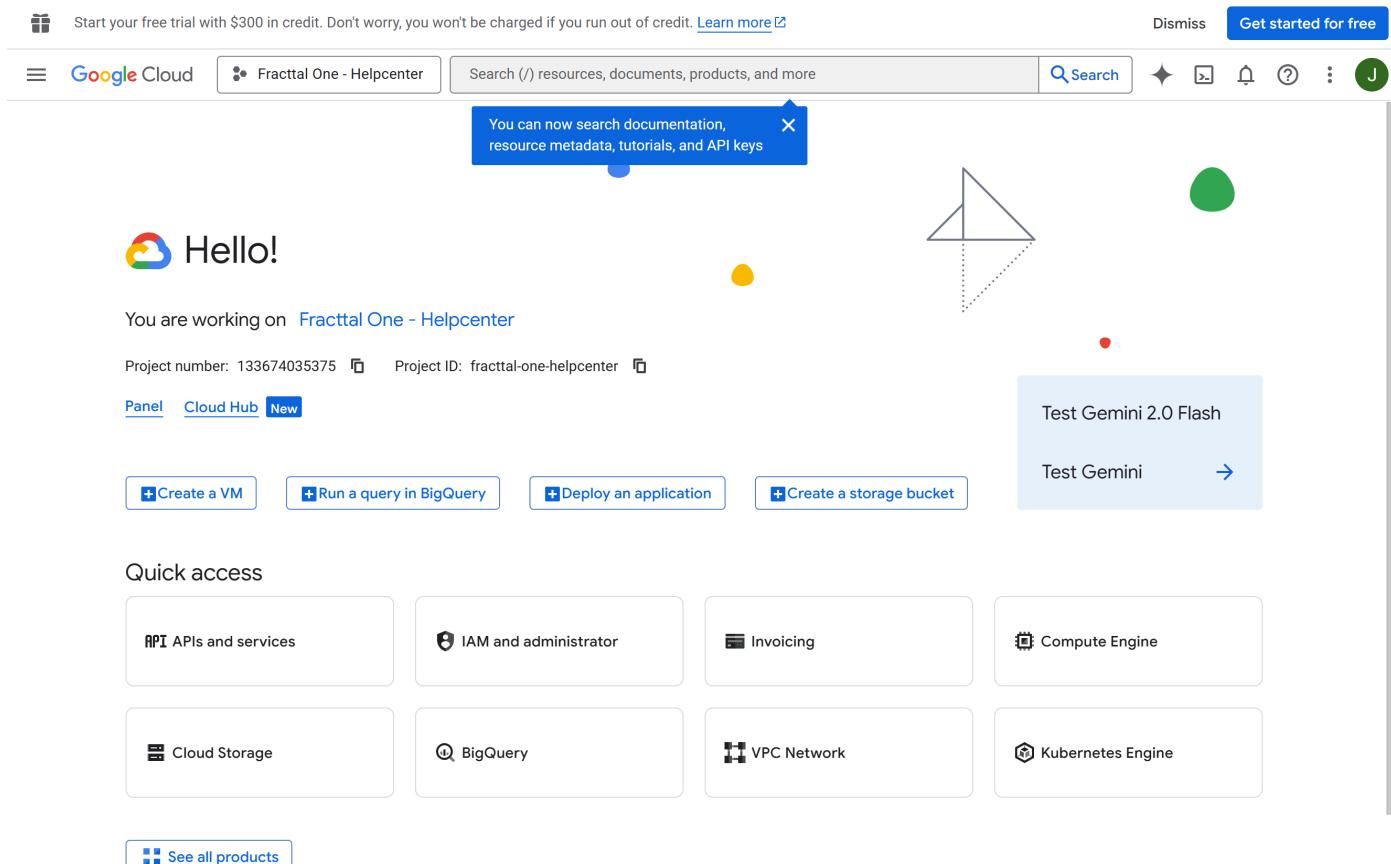
La connexion sera établie en utilisant un **Compte de Service** (Service Account) de Google Cloud Platform, qui est la méthode recommandée pour les intégrations serveur à serveur, garantissant sécurité et autonomie.

Étape 1 : Configuration dans Google Cloud Platform (GCP)

La première étape consiste à créer les identifiants nécessaires sur la plateforme Google pour permettre à Fracttal One d'accéder à votre feuille de manière sécurisée.

1.1. Accéder au compte de service

Accédez à la Console de Google Cloud Platform.



The screenshot shows the Google Cloud Platform homepage. At the top, there's 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.' link, a 'Learn more' button, a 'Dismiss' button, and a 'Get started for free' button. Below the banner, the navigation bar includes the 'Google Cloud' logo, a 'Fracttal One - Helpcenter' link, a search bar with placeholder 'Search (/) resources, documents, products, and more', and a 'Search' button. A blue callout box over the search bar says 'You can now search documentation, resource metadata, tutorials, and API keys'. The main content area starts with a 'Hello!' greeting and a message 'You are working on Fracttal One - Helpcenter'. It shows project details: 'Project number: 133674035375' and 'Project ID: fracttal-one-helpcenter'. Below this are buttons for 'Create a VM', 'Run a query in BigQuery', 'Deploy an application', and 'Create a storage bucket'. A 'Test Gemini 2.0 Flash' card is visible. The 'Quick access' section contains links to 'API APIs and services', 'IAM and administrator', 'Invoicing', 'Compute Engine', 'Cloud Storage', 'BigQuery', 'VPC Network', and 'Kubernetes Engine'. At the bottom left is a 'See all products' button, and at the bottom right is a page number '1/20'.

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

The screenshot shows the Google Cloud Platform dashboard for the project 'Fracttal One - Helpcenter'. At the top, there is a banner for a free trial with \$300 in credit. The search bar contains the placeholder 'Search (/) resources, documents, products, and more'. A tooltip above the search bar says 'You can now search documentation, resource metadata, tutorials, and API keys'. On the right side, there are several decorative icons: a yellow triangle, a green circle, a red dot, and a blue hexagon.

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**

Quick access

API APIs and services (boxed in red)

IAM and administrator **Invoicing** **Compute Engine**

Cloud Storage **BigQuery** **VPC Network** **Kubernetes Engine**

+ See all products

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

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

Dismiss Get started for free

Google Cloud Fractal One - Helpcenter Search (/) resources, documents, products, and more Search ⚡ 🌐 🔍 ⓘ ⚙️

API APIs and services Credentials + Create credentials API Key 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. Configure consent screen API Keys Help me choose No API key to display Actions Restrictions Actions

OAuth 2.0 Client IDs No OAuth client to display Actions

Service accounts [Manage Service Accounts](#) E-mail Name Actions No service account to display

Displaying project "Fractal One - Helpcenter" in organization "No organization" X

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.

The screenshot shows the Google Cloud IAM service account creation process. On the left, a sidebar menu is open with various options like IAM, PAM, Main access limit, Organizations, Identity and organization, Policy Problem Solver, Policy Analyzer, Organization policies, and Service accounts. The 'Service accounts' option is highlighted with a red box and has a red arrow pointing to it from the text above. The main area is titled 'Create service account' and contains three steps: 1. Create service account, 2. Permissions(optional), and 3. Main with access(optional). Step 1 is active, showing fields for 'Service Account Name' (set to 'Crear Equipos'), 'Display name for this service account' (empty), 'Service Account ID' (set to 'crear-equipos-773'), and 'Email Address' (<id>@fracttal-one-helpcenter.iam.gserviceaccount.com). Below these are 'Service Account Description' (empty) and 'Describe how the service account will be used' (empty). A 'Create and continue' button is at the bottom of step 1. Buttons for 'Conclude' and 'Cancel' are at the bottom of the main area.

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**.

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

Dismiss Get started for free

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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 Upload a current key 78df830c67e266e185b2a202caeaa908b7a57cc47 1 de jul. de 2025 31 de dez. de 9999

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

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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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	78df830c67e266e185b2a202caeaa908b7a57cc47	1 de jul. de 2025	31 de dez. de 9999	

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 Fracttal 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` `id_type_item` `field_1`

`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.

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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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

- 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@fracttalonehelpcenter.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 Fracttal One

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

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

The screenshot shows the Fracttal One interface for managing auxiliary catalogs. On the left, a sidebar lists various modules: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (which is highlighted with a red box), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main content area is titled 'Catalogue of Failures'. It includes tabs for Failure Types, Failure Causes, and Fault Detection. Below these tabs is a table listing failure types, each with a checkbox and a circular icon. The listed failure types are: 00-ELECTRICA, Alta temperatura, ar não gela, Atascamiento, Batería con voltaje bajo, CALENTAMIENTO DE MOTOR, CAVITATION, and COMPRESOR. A message at the bottom indicates 'Showing 50 of 76'. In the top right corner, there are icons for notifications, messages, and rocket launches, along with a 'Save' button and a 'JC' dropdown.

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

Activación Fractal - Español - 477

Save
Print icon
Copy icon
Print icon

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

Type

▼

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 Imènec	Google Sheet (Service Account)
<input type="checkbox"/> Proyecto ICS	Google Sheet (Service Account)

Showing 11 of 11

Configurez les champs suivants :

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

Type

▼

Description

Type

project_id*

private_key_id*

private_key*

must have required property 'private_key'

client_email*

must have required property 'client_email'

client_id*

must have required property '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 Fracttal One :

The screenshot shows the Fracttal One settings interface with the 'Connections' section selected. On the left, there's a sidebar with various modules like General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (which is currently selected), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main area shows a list of connections with columns for Description, Type, and Status. Four specific fields are highlighted with a red border: 'private_key *', 'client_email *', 'client_id *', and 'client_x509_cert_url *'. Below these fields, there are input fields for auth_uri, token_uri, and auth_provider_x509_cert_url, each containing a default URL.

- **private_key**
- **client_email**
- **client_id**
- **client_x509_cert_url**
- ...et les autres champs requis.

The screenshot shows the Fracttal software interface. On the left, a sidebar lists various settings categories: General, User Accounts, Business Calendar, Modules, Financial, Auxiliary Catalogs (which is selected), Document Management, Transactions Log, Security, API Connections, Guest Portal, and Account. The main area is titled 'Connections' and shows a list of existing connections, including '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', 'Integración googlesheet Imènec', and 'Proyecto ICS'. Below the list, it says 'Showing 11 of 11'. To the right, a detailed configuration form is displayed, enclosed in a red box. The form fields include: project_id*, private_key_id*, private_key*, client_email*, client_id*, client_x509_cert_url*, auth_uri, token_uri, and auth_provider_x509_cert_url. The 'client_x509_cert_url' field contains the value 'https://www.googleapis.com/robot/v1/metadata/x509/crear-equipo@fracttal-one-helpcenter.iam.gserviceaccount.com'. At the top right of the configuration form, there are save and cancel buttons.

Cliquez sur **Enregistrer**.

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

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

Allez au menu principal et sélectionnez **Automatisateur > Fracttal Hub**.



Version: 5.1.03



Save



Start

Catalogs

Warehouses

Work Management

Monitoring

Dispatcher



Business Intelligence

Cloud Disk

Requests

Online help



Type	
Connections	
<input type="checkbox"/> 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 Imènec	Google Sheet (Service Account)
<input type="checkbox"/> Proyecto LCS	Google Sheet (Service Account)

Showing 11 of 11



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

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

Donnez un nom au flux.

Fractal Hub

Enabled

① 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

```
graph LR; Source[Trigger & Source] --> Filter[Select One]; Filter --> Target[Connection & Settings]
```

4.1. Configurer la Source (Source)

Déclencheur

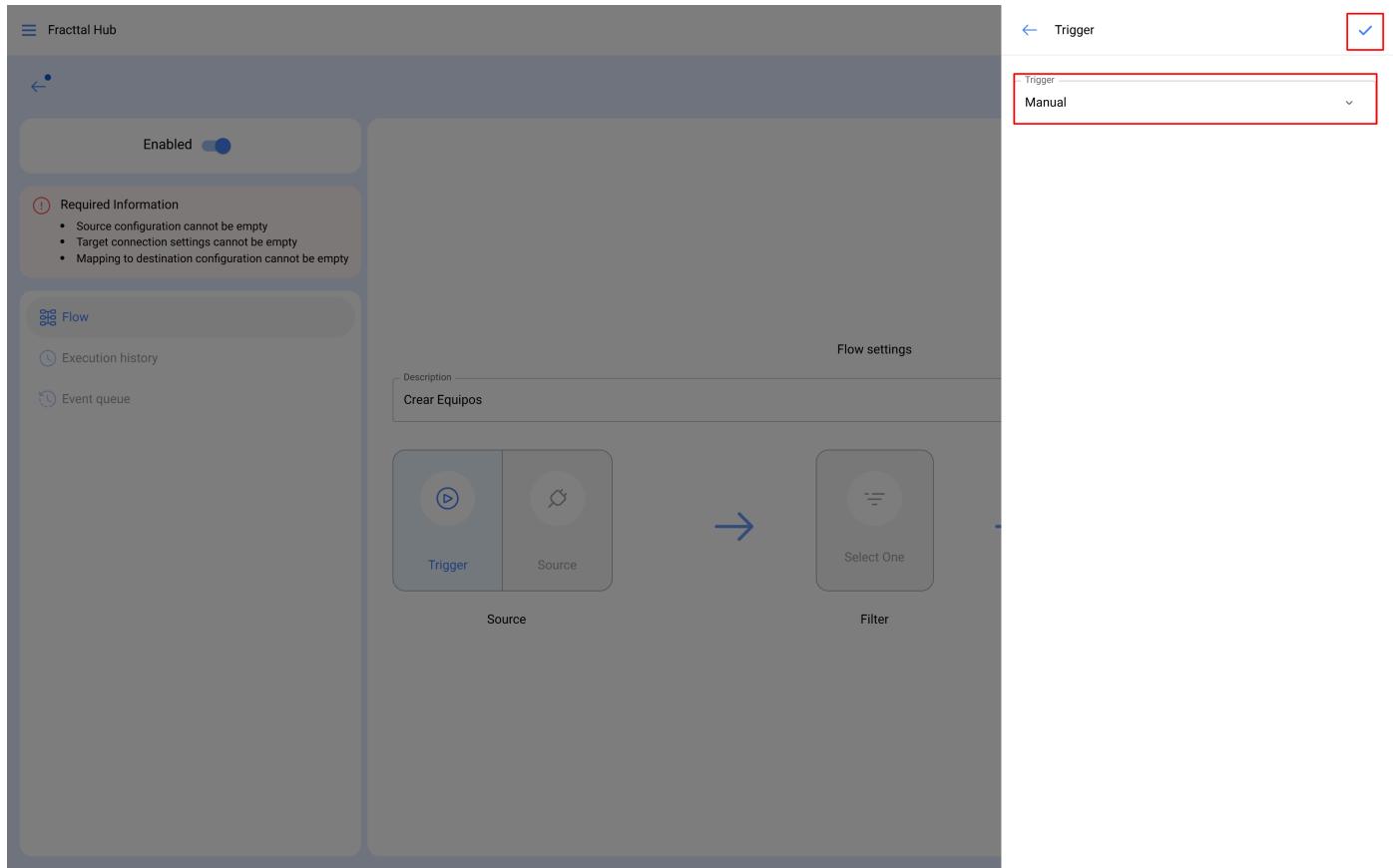
The screenshot shows the Fractal Hub interface for configuring a flow. On the left, there's a sidebar with 'Fractal Hub' and a bell icon. The main area has tabs for 'Flow' (selected), 'Execution history', and 'Event queue'. A 'Save' button is at the top right.

The central panel shows a flow configuration with three main sections: 'Source', 'Filter', and 'Target'.

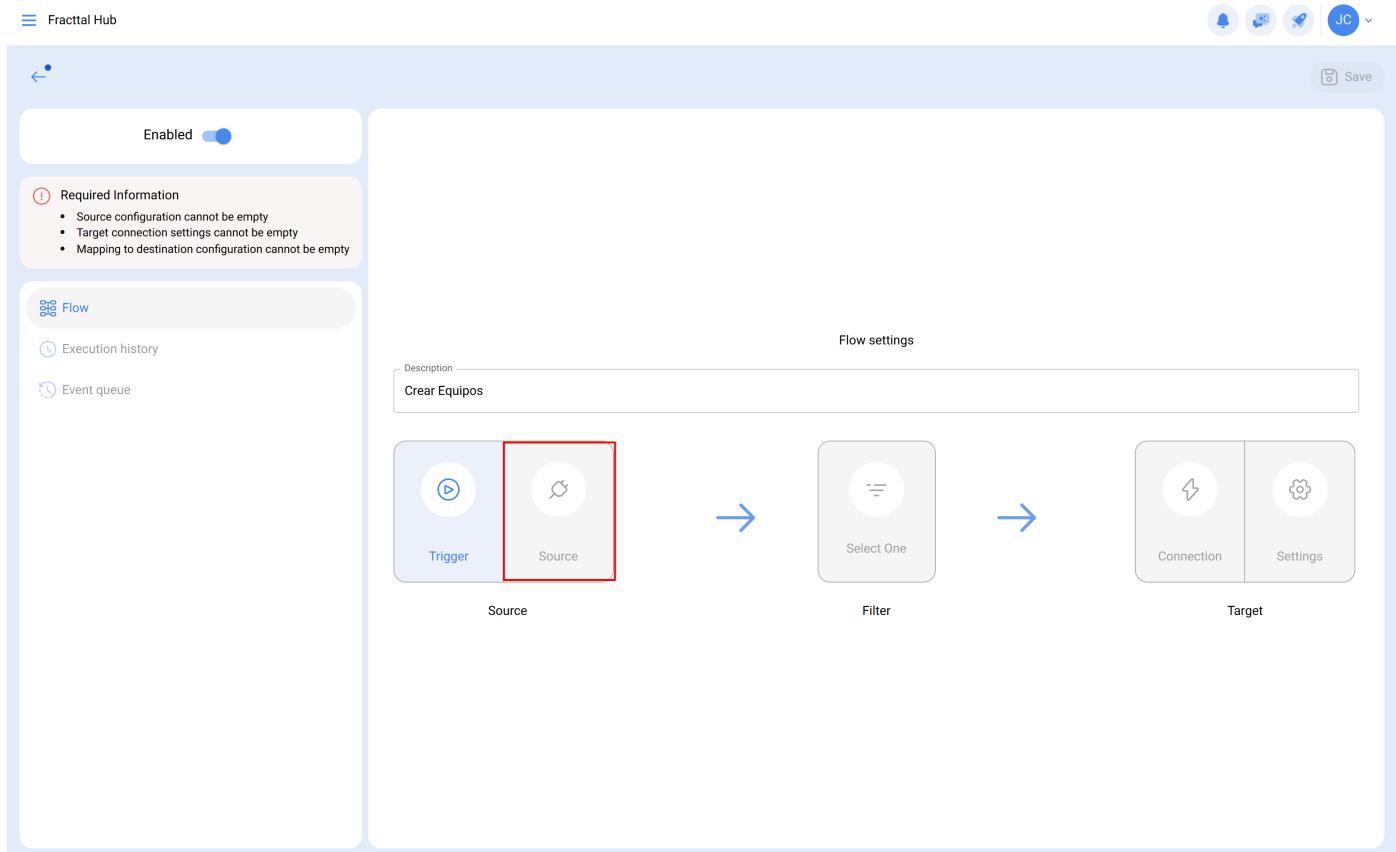
- Source:** Contains a 'Trigger' icon (highlighted with a red box) and a 'Source' icon. The 'Trigger' icon is highlighted with a red box.
- Filter:** Contains a 'Select One' icon.
- Target:** Contains a 'Connection' icon and a 'Settings' icon.

The flow is titled 'Crear Equipos' and has 'Flow settings' above it. A note in a box says: 'Required Information' with bullet points: 'Source configuration cannot be empty', 'Target connection settings cannot be empty', and 'Mapping of destination configuration cannot be empty'.

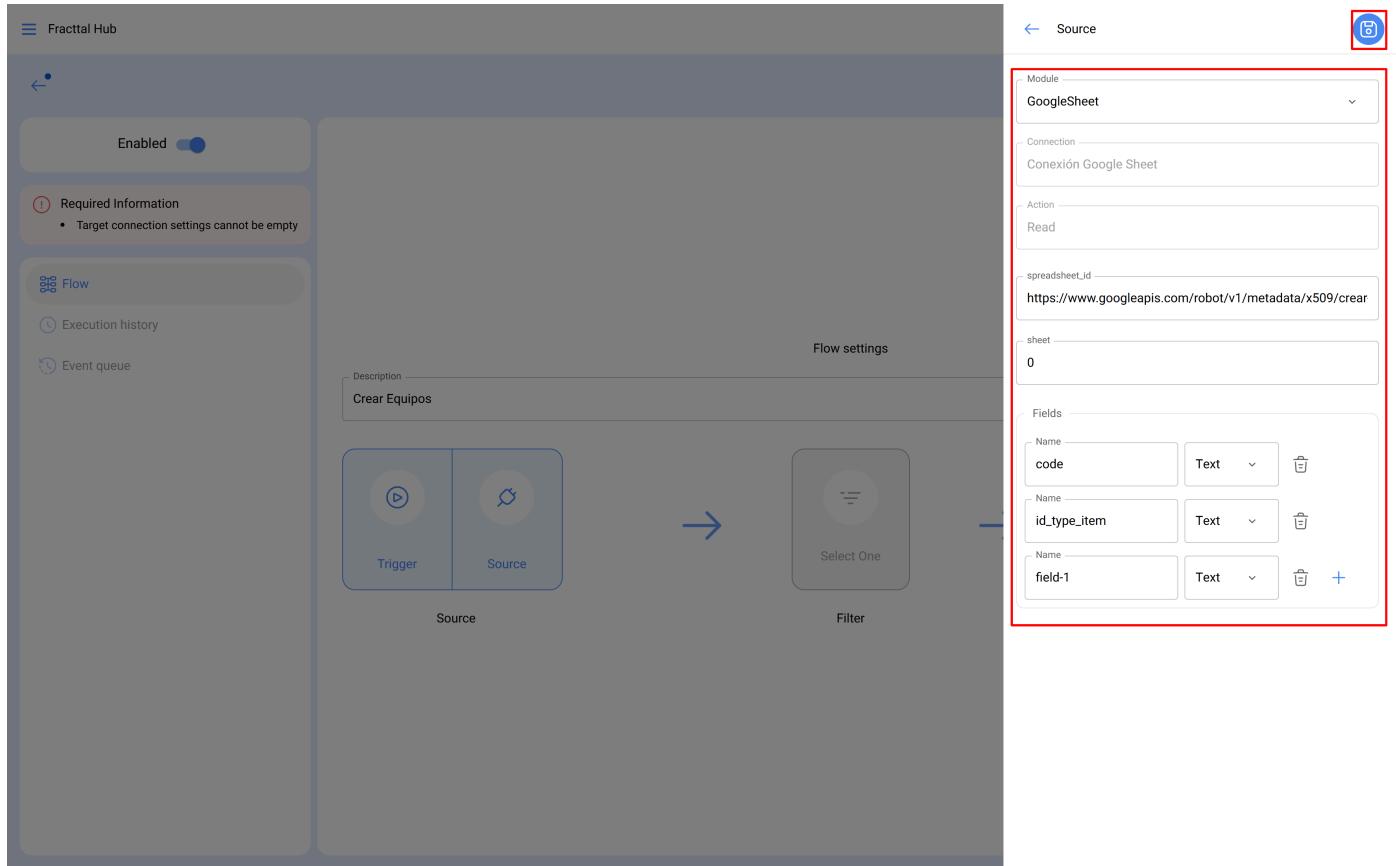
Pour cet exemple, sélectionnez **Manuel**. Cela vous permet d'exécuter le flux quand vous le souhaitez.



Source :

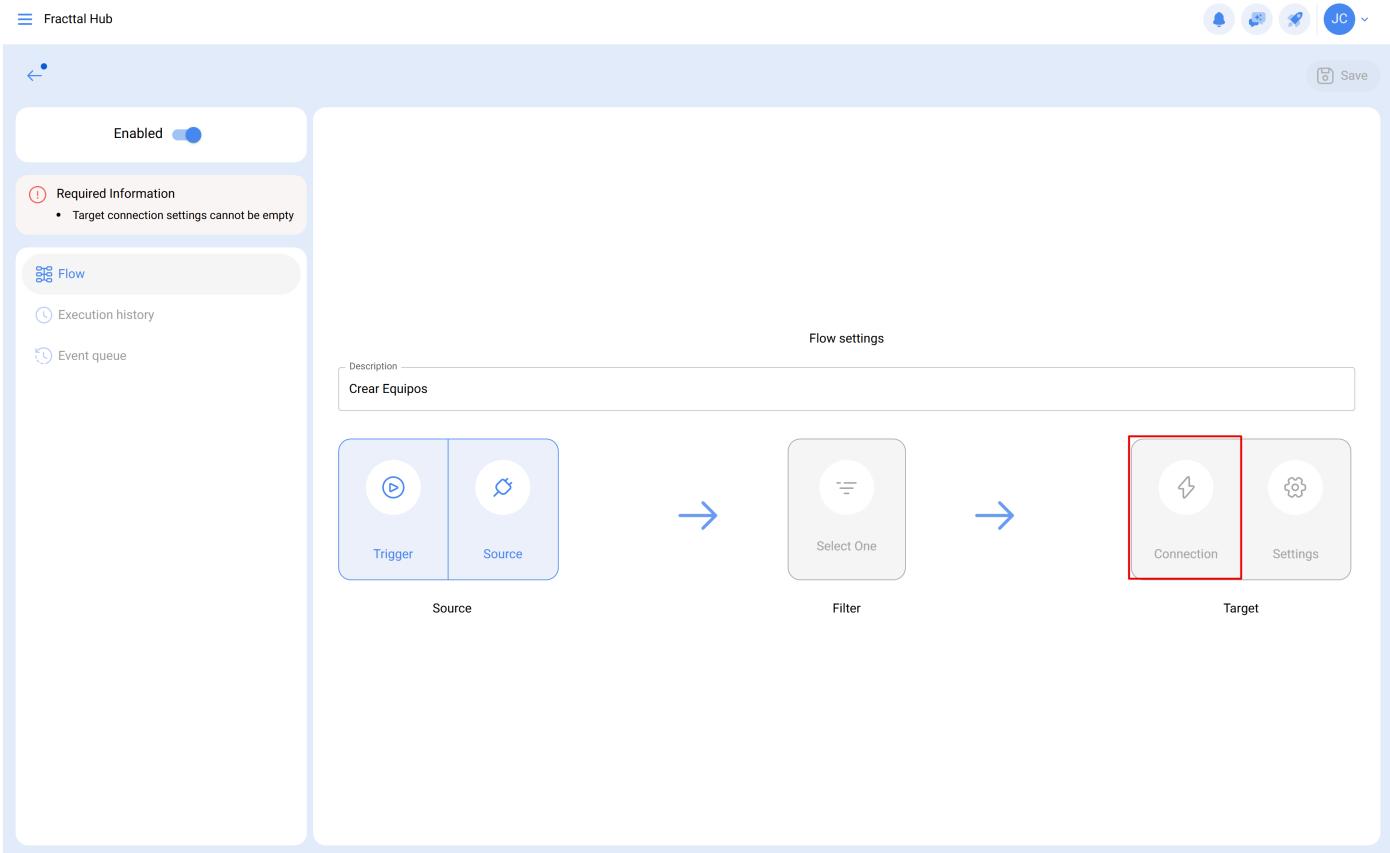


- **Module** : Sélectionnez **GoogleSheet**.
- **Connexion** : Sélectionnez la connexion créée à l'Étape 3 (**CRÉER ÉQUIPES**).
- **Action** : Sélectionnez **Lire**.
- **spreadsheet_id** : Collez l'ID de votre feuille. Vous pouvez le trouver dans l'URL (le code long entre `/d/` et `/edit`).
- **sheet** : 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**).

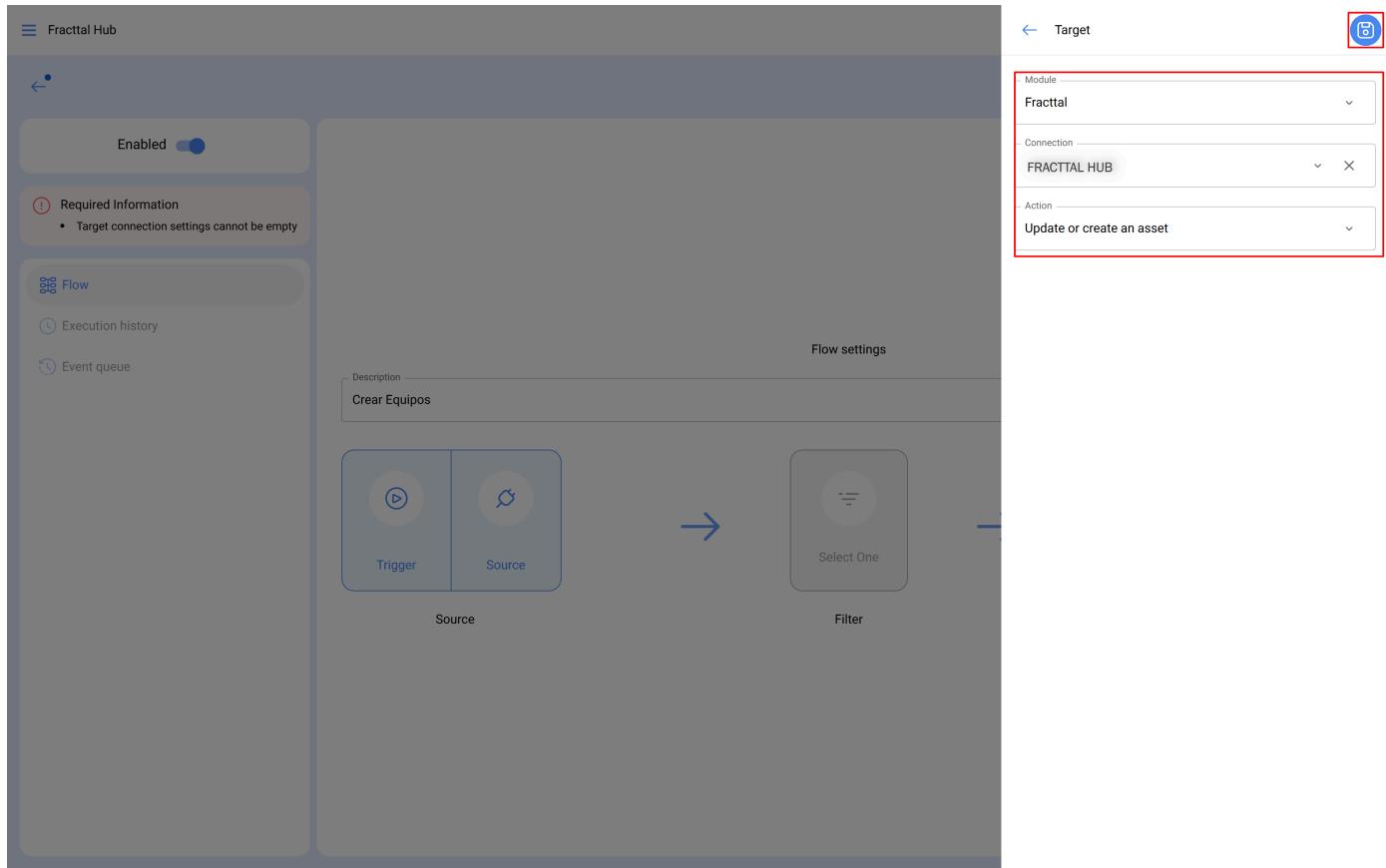


4.2. Configurer la Destination (Destination)

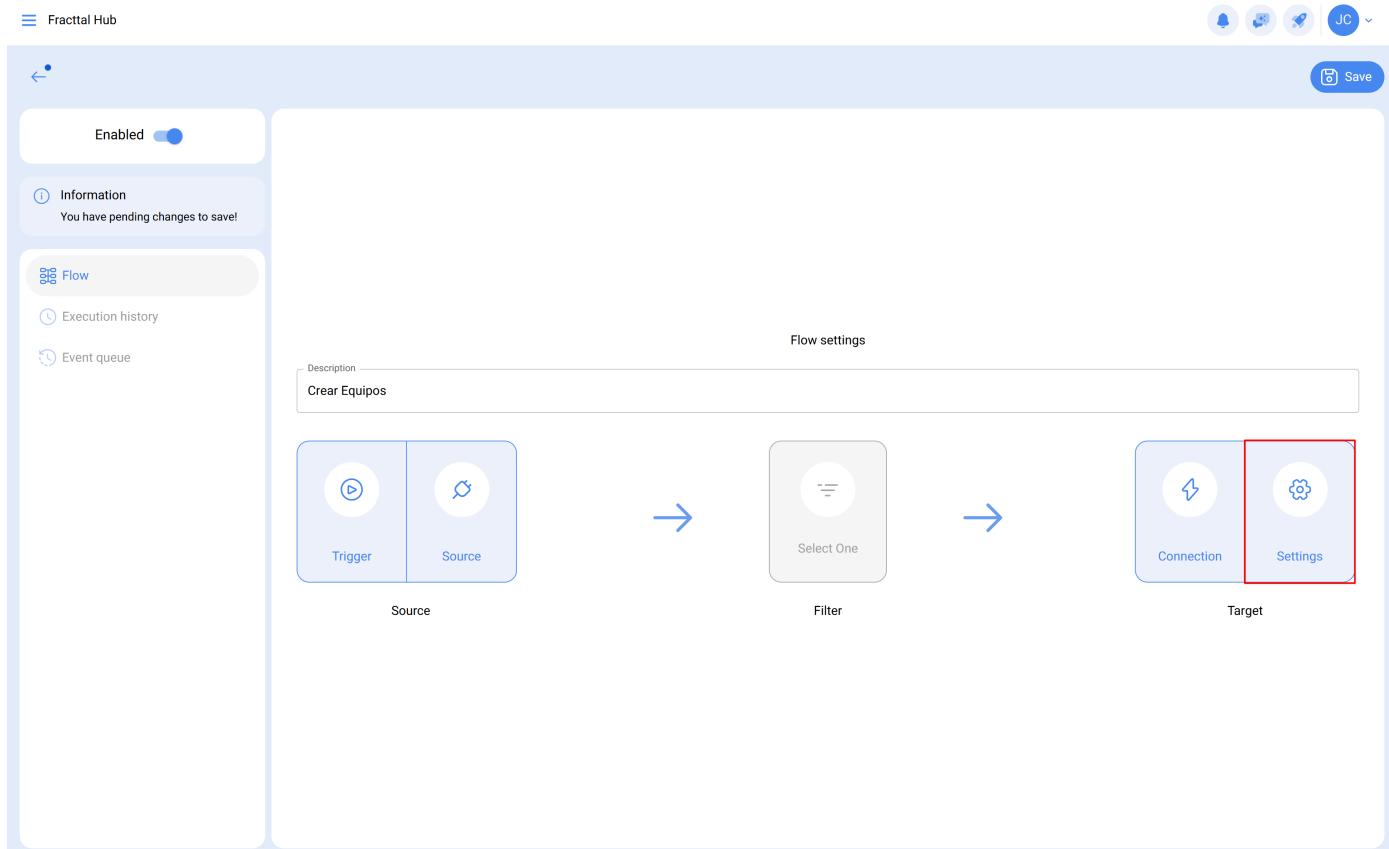
Connexion :



- **Module** : Sélectionnez **Fractal**.
- **Connexion** : Sélectionnez **FRACTAL 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 Fracttal), en vous assurant qu'ils correspondent :

The screenshot shows the Fracttal Hub Fields Configuration interface. On the left, there's a dark sidebar with 'Fracttal Hub' at the top, followed by 'Enabled' (switched on), 'Information' (with a pending save notice), 'Flow' (selected), 'Execution history', and 'Event queue'. The main area has a title 'Flow settings' and a sub-section 'Create Equipos'. It shows a flow diagram with a 'Trigger' icon and a 'Source' icon pointing to a 'Filter' icon. To the right is the 'Fields Configuration' panel, which has tabs for 'Source (Fields)' and 'Target (Fields)'. Under 'Source (Fields)', there are three dropdown menus: 'All -> Object' for 'code', 'id_type_item', and 'field_1'. Under 'Target (Fields)', there are six dropdown menus: 'All -> Object' for 'field_2', 'field_3', 'field_4', 'field_5', and 'field_6'. Red arrows point from the 'code', 'id_type_item', and 'field_1' dropdowns to their corresponding 'field_2', 'field_3', and 'field_4' dropdowns, indicating they are mapped.

The screenshot shows the 'Fields Configuration' page in Fractal Hub. At the top, it displays 'Source: Google Sheet' and 'Target: Fractal API'. Below this, there are two main sections: 'Source (Fields)' and 'Target (Fields)'. Under 'Source (Fields)', there are two mappings: 'code' to 'code' and 'id_type_item' to 'id_type_item'. Both of these mappings are highlighted with red boxes. Under 'Target (Fields)', there are five mappings: 'All > Object' to 'field_2', 'All > Object' to 'field_3', 'All > Object' to 'field_4', 'All > Object' to 'field_5', and 'All > Object' to 'field_6'. Each of these target fields is also highlighted with a red box.

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

The screenshot shows the 'Flow' configuration page in Fractal Hub. The flow is titled 'Crear Equipos'. It consists of four main components: 'Trigger' (represented by a circular arrow icon), 'Source' (represented by a magnifying glass icon), 'Filter' (represented by a circle with a horizontal line through it), and 'Connection' (represented by a lightning bolt icon). The 'Source' and 'Filter' components are highlighted with blue boxes. Below the flow diagram, there is a green button labeled 'Action Done' with a checkmark icon.