

Create your Google Cloud account

If you don't have Google Cloud account, follow these steps, otherwise go to the next section.

To create a Google Cloud Platform (GCP) account, you first need a Google account. Then, you can sign in to the Google Cloud console and start using the free tier or create a paid account.

Here's a step-by-step guide:

1. Go to the Google Cloud console: Visit cloud.google.com.
2. Sign in with your Google account: If you don't have one, you'll need to create one.
3. Accept the terms and conditions: Review and accept the Google Cloud terms and conditions.
4. Start Free or Create a Billing Account:
 - a. Free Tier: You can start using Google Cloud for free with the free tier.
 - b. Paid Account: If you need more resources or advanced features, you'll need to create a billing account.
5. Create a Billing Account (if needed): If you choose to create a paid account, you'll need to set up a billing account, which requires providing payment verification details and information about your organization.
6. Get Started: Once your account is set up, you can access the Google Cloud console and start using the services.

Create a Google Cloud project

It is mandatory to create a project to use Google APIs and SDKs into your programs.

Go to this link and follow the steps:

<https://developers.google.com/workspace/guides/create-project>

Create a Google Cloud Service Account

1. Go to <https://console.cloud.google.com/projectselector2/iam-admin/serviceaccounts> , select the project that you selected in the previous section.

2. Click the button + Create service account, fill the required fields and click the button Create and continue.
3. Select the role Owner and click the Continue button.
4. Save your Credentials JSON file to use later.
5. Click the button Done.
6. Click the button 3 dots and select Manage keys:

Service accounts [+ Create service account](#) [Delete](#) [Manage access](#) [Refresh](#) [Learn](#)

Service accounts for project "InterSystemsIRIS"

A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps, or services running outside Google. [Learn more about service accounts.](#)

Organization policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants creation/upload, or the creation of service accounts entirely. [Learn more about service account organization policies.](#)

Filter Enter property name or value ?

<input type="checkbox"/>	Email	Status	Name ↑	Description	
<input type="checkbox"/>	gformsiris@intersystemsiris-408923.iam.gserviceaccount.com	✓ Enabled	GFormsIRIS		Manage details Manage permissions Manage keys View metrics View logs Disable Delete
<input type="checkbox"/>	health-gforms@intersystemsiris-408923.iam.gserviceaccount.com	✓ Enabled	health-gforms		⋮

7. Click the button Add key > Create new key
8. Select JSON and click Create:

Create private key for "health-gforms"

Downloads a file that contains the private key. Store the file securely because this key can't be recovered if lost.

Key type



JSON

Recommended



P12

For backward compatibility with code using the P12 format

Cancel

Create

9. The credentials are saved into your downloads page, SAVE THIS FILE BECAUSE I WILL USE IT LATER.

Enable Google Forms and Google Drive APIs

1. Go to <https://console.cloud.google.com/apis/dashboard>
2. Click the button + Enable APIs and services
3. Search for Google Drive API on the top field Search for APIs & Services, select Google Drive API and enable the API, if not enabled yet.
4. Repeat the step 3 and Search for Google Forms API on the top field Search for APIs & Services, select Google Forms API and enable the API, if not enabled yet.

Get and run the health-gforms project

1. Clone/git pull the repo into any local directory

```
$ git clone https://github.com/yurimarx/health-gforms/health-gforms.git
```
2. Open the terminal in this directory and run:

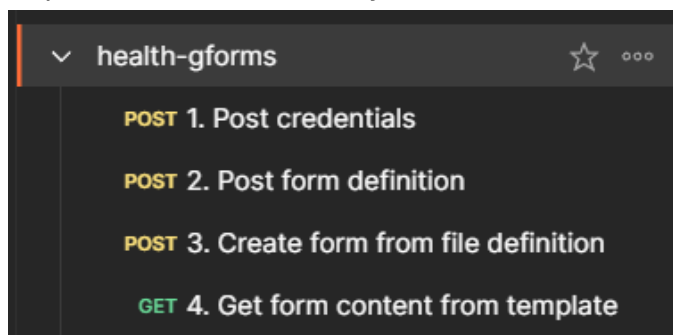
```
$ docker-compose build
```



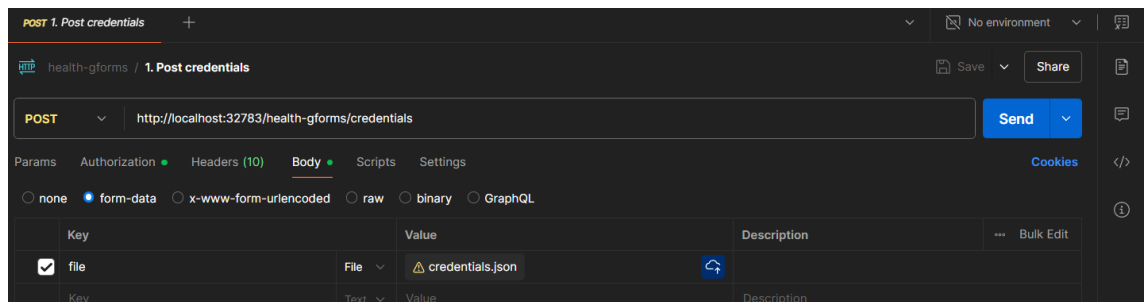
```
$ docker-compose up -d
```

Using the health-gforms API via Postman

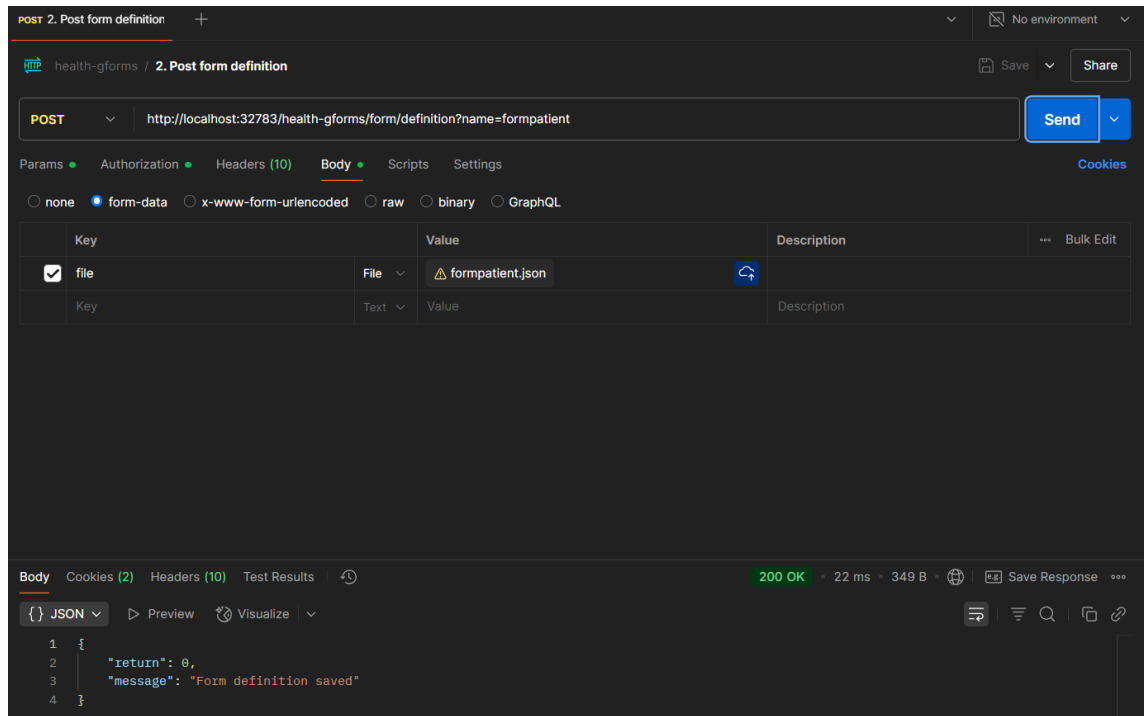
1. Download (<https://www.postman.com/downloads/>) and install the Postman application, if you don't have this application yet.
2. Download the postman collection from https://github.com/yurimarx/health-gforms/raw/refs/heads/master/health-gforms.postman_collection.json
3. Import this collection into your Postman:



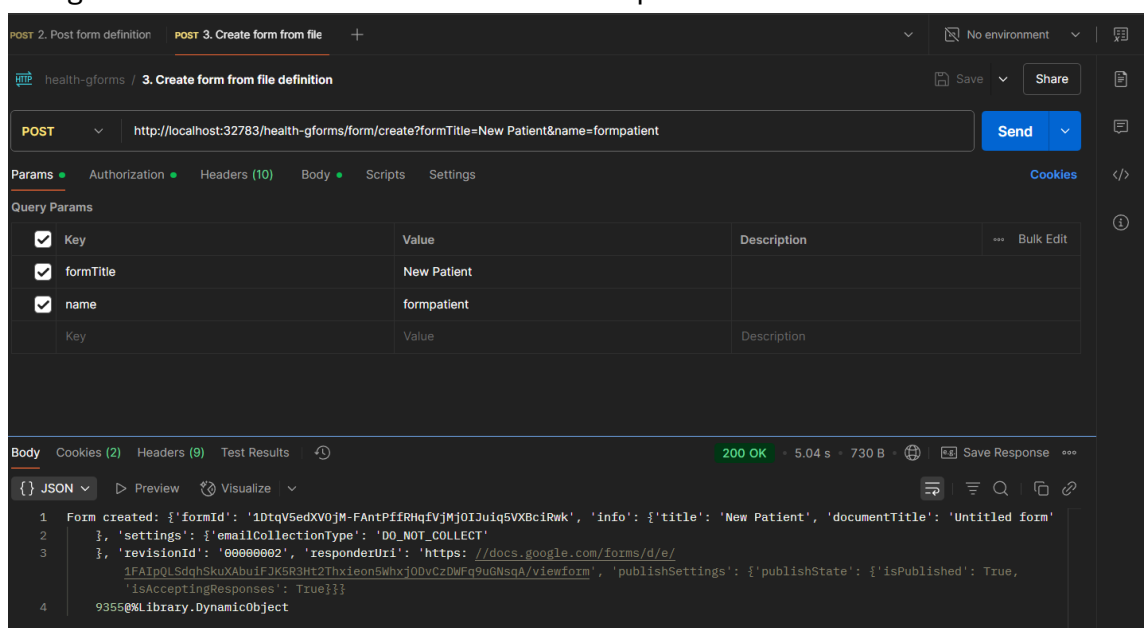
4. Click the 1. Post credentials to upload the google cloud service account credentials into your docker instance:



- Click the 2. Post form definition, to save the form definition (use a file from our root project folder, formpatient.json) into our docker instance:



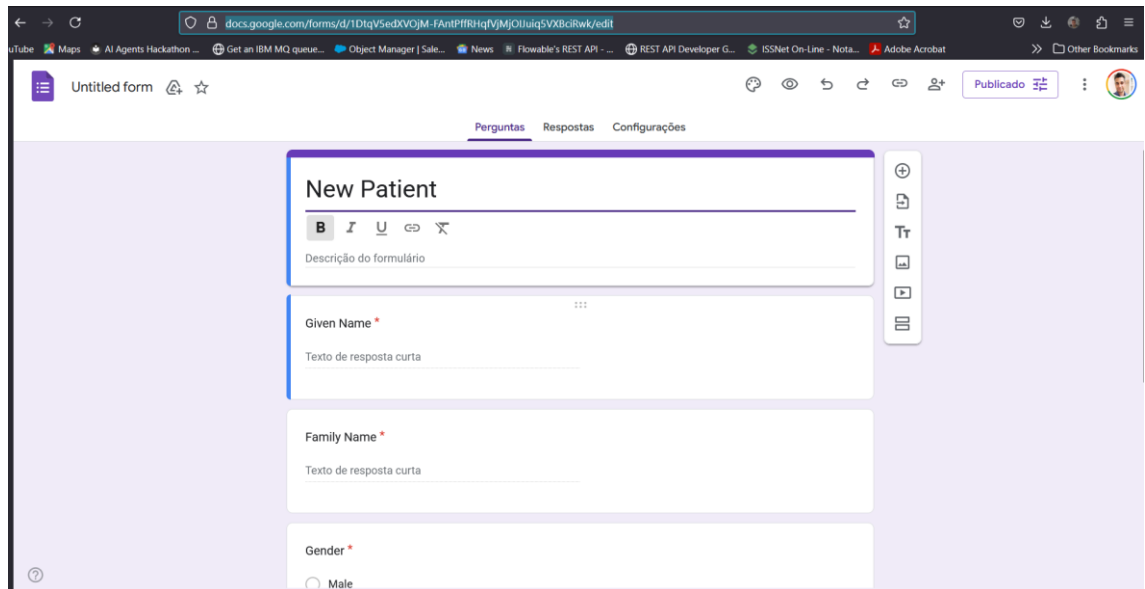
- Click 3. Create form from file definition, to create a new google form on Google cloud and to collect data about a new patient:




7. Copy the value into formId:

```
Form created: {'formId': '1DtqV5edXVOjM-FAntPffRHqfVjMjOIJuq5VXBciRwk',
```

8. Open the Google forms using your browser (pay attention for formId value, I used it into the path: <https://docs.google.com/forms/d/1DtqV5edXVOjM-FAntPffRHqfVjMjOIJuq5VXBciRwk/edit>:



9. To fill the Google Forms as end user, go to the button participant link  and past in a new browser tab:



10. Fill the form as end user:

docs.google.com/forms/d/e/1FAIpQLSdqhSkuXAbuiFJK5R3H12Thxieon5WhxjODvCzDWFq9uGNsqA/viewform

New Patient

yurimarx@gmail.com [Mudar de conta](#)

Não compartilhado

Rascunho salvo.

* Indica uma pergunta obrigatória

Given Name *

Yuri

Family Name *

Gomes

Gender *

☒ Male

☐ Female

11. Post the form answers.
12. Click the 4. Get form content from template and change the value formId with the formId provided in the step 7:

health-gforms / 4. Get form content from template

GET <http://localhost:32783/health-gforms/form/template/content?formId=1DtqV5edXVOJM-FAntPffRHqfVJMJOJuiq5VXBclRwk&templatePath=createp...> Send

Params Authorization Headers (10) Body Scripts Settings Cookies

Query Params

Key	Value	Description
formId	1DtqV5edXVOJM-FAntPffRHqfVJMJOJuiq5VXBclRwk	
templatePath	createpatient	

Response History

13. Click the send button and see the fhir json content to send to your FHIR server:

health-gforms / 4. Get form content from template

SaveShare

GET

http://localhost:32783/health-gforms/form/template/content?formId=1DtqV5edXVOJM-FantPffRHqfVjMjOIJulq5VXBciRwk&templatePath=createp...

Send

Params

Authorization

Headers (10)

Body

Scripts

Settings

Cookies

Query Params

<input checked="" type="checkbox"/> Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> formId	1DtqV5edXVOJM-FantPffRHqfVjMjOIJulq5VXBciRwk		
<input checked="" type="checkbox"/> templatePath	createpatient		

Body

Cookies (2)

Headers (9)

Test Results

200 OK · 2.01 s · 681 B · Save Response

JSON

Preview

Visualize

```
1 {
2   "resourceType": "Patient",
3   "name": [
4     {
5       "use": "official",
6       "given": [
7         "Vuri"
8       ],
9       "family": "Gomes"
10    }
11  ],
12  "gender": "Male",
13  "birthDate": "1978-06-30",
14  "telecom": [
15    {
16      "value": "61 9999-9999",
17      "use": "mobile",
18      "system": "phone"
19    }
20  ]
21 }
```