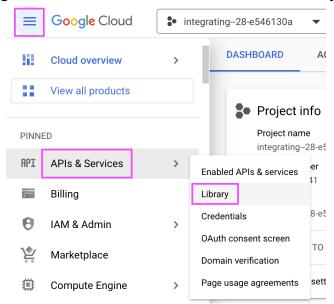
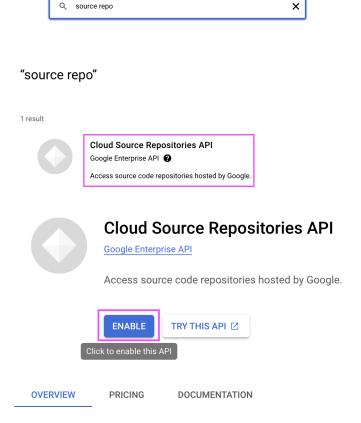
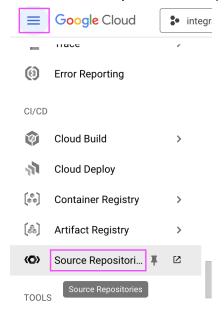
- Enable the necessary APIs for: Cloud Source Repositories API, Cloud Functions, Cloud Build
 - a. "Navigation menu"; "APIs & Services", "Library"



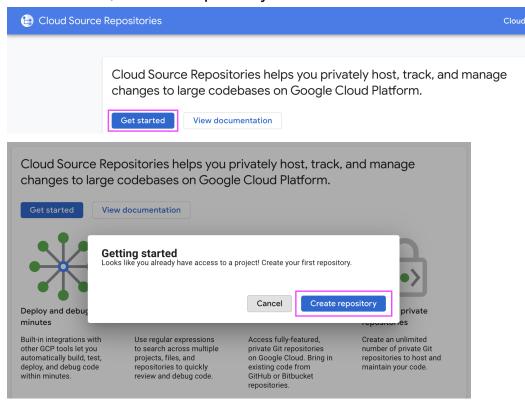
b. Type each service into the search bar individually, and click to "enable" each API



- 2. Set up the source repository that will store our code
 - a. "Navigation menu"; "Source Repositories" (opens in new tab)



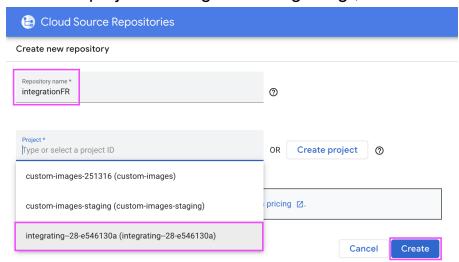
b. "Get started"; "Create repository"



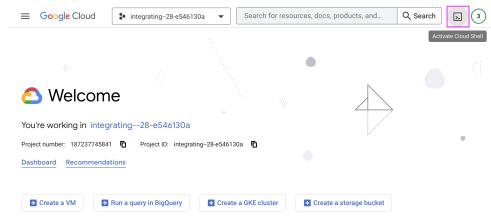
c. "Create new repository"; "Continue"



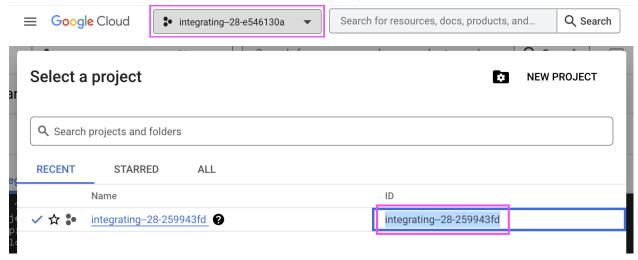
d. Assign "Repository name" and choose the "Project". Since we are integrating Cloud Functions and the repository, we will select the project starting with "integrating"; "Create"



- e. An alert will show stating "your repository is currently empty"
- 3. Populate the repository using Cloud Shell
 - a. In our open Google Cloud tab, "Activate Cloud Shell", in the upper right hand corner; "Continue" upon startup



b. To use commands on this project, copy the project ID, located on the "Select a Project" page, and in Cloud Shell type the following command, followed by enter:



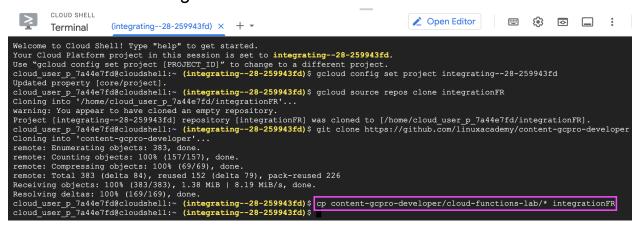
- i. gcloud config set project integrating–28-259943fd
- c. "Authorize"
- d. Clone the repository we created into the Cloud Shell using the following command, followed by enter:
 - gcloud source repos clone integrationFR



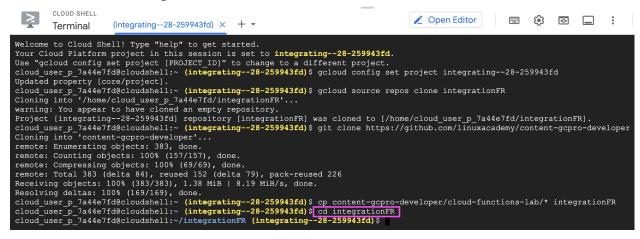
- e. Bring the repository in from GitHub
 - i. git clone https://github.com/linuxacademy/content-gcpro-developer

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to integrating--28-259943fd.
Use "goloud config set project [PROJECT ID]" to change to a different project.
cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd) $ gcloud config set project integrating--28-259943fd
Updated property [core/project].
cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd) $ gcloud source repos clone integrationFR
Cloning into '/home/cloud_user_p_7a44e7fd/integrationFR'...
warning: You appear to have cloned an empty repository.
Project [integrating--28-259943fd] repository [integrating--28-259943fd) $ git clone https://github.com/linuxacademy/content-gcpro-developer'...
remote: [integrating-028-259943fd] $ git clone https://github.com/linuxacademy/content-gcpro-developer'
Cloning into 'content-gcpro-developer'...
remote: Enumerating objects: 383, done.
remote: Counting objects: 100% (157/157), done.
remote: Counting objects: 100% (69/69), done.
remote: Counting objects: 100% (69/69), done.
Resolving deltas: 100% (383/383), 1.38 MiB | 8.19 MiB/s, done.
Resolving deltas: 100% (169/169), done.
cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd)$
```

- f. Copy the GitHub files just brought in, to the source repository
 - i. cp content-gcpro-developer/cloud-functions-lab/* integrationFR



4. Open the GitHub file using the following command followed by enter a. cd integrationFR



- 5. Configure two Git variables so the files can be worked with
 - a. git config user.name "Elisha Waller"
 - b. git config user.email "ewallertech@gmail.com"

```
Welcome to Cloud Shell! Type "help" to get started.

Your cloud Platform project in this session is set to integrating--28-259943fd.

Use "gcloud config set project [PROUNCT_ID]" to change to a different project.

cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd) $ gcloud config set project integrating--28-259943fd Updated property [core/project].

cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd) $ gcloud source repos clone integrationFR

cloning into '/home/cloud user_p_7a44e7fd/integrationFR'...

warning: You appear to have cloned an empty repository.

Project [integrating--28-259943fd] repository [integrationFR] was cloned to [/home/cloud_user_p_7a44e7fd/integrationFR].

cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd) $ git clone https://github.com/linuxacademy/content-gcpro-developer Cloning into 'content-gcpro-developer'...

remote: Enumerating objects: 303, done.

remote: Compressing objects: 100% (695/69), done.

remote: Compressing objects: 100% (695/69), done.

Receiving objects: 100% (383/33), 1.38 MB | 8.19 MiB/s, done.

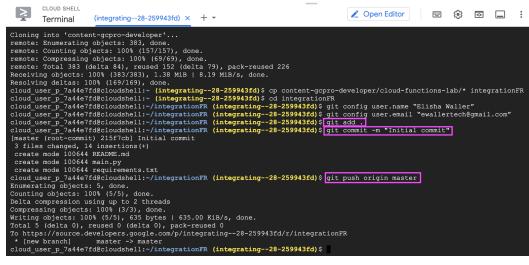
Receiving objects: 100% (383/33), 1.38 MB | 8.19 MiB/s, done.

Receiving objects: 100% (383/33), 1.38 MB | 8.19 MiB/s done.

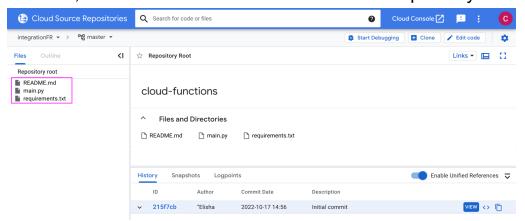
Recoiving objects: 100% (383/33), 1.38 MB | 8.19 MiB/s done.

Recoiving objects: 100% (387-7460-010dshell:~ (integrating--28-259943fd) $ cp content-gcpro-developer/cloud-functions-lab/* integrationFR cloud_user_p_7a44e7fd@cloudshell:~ (integrating--28-259943fd) $ cd integrationFR git config user.name "Elisha Waller" cloud_user_p_7a44e7fd@cloudshell:~ (integrationFR (integrating--28-259943fd) $ git config user.mame "Elisha Waller" cloud_user_p_7a44e7fd@cloudshell:~ (integrationFR (integrating--28-259943fd) $ git config user.email "ewallertech@gmail.com" cloud_user_p_7a44e7fd@cloudshell:~ (integrationFR (integrating--28-259943fd) $ git config user.email "ewallertech@gmail.com" cloud_user_p_7a44e7fd@cloudshell:~ (integrationFR (integrating--28-259943fd) $ git config user.email "ewallertech@gmail.com" cloud_user_p_7a44e7fd@clo
```

- Commit the files to our main repositories with the following three commands; enter after each command
 - a. git add.
 - b. git commit -m "Initial commit"
 - c. git push origin master

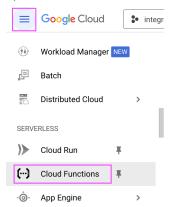


7. Revisit the open Cloud Source Repositories tab; refresh the page; and now, our three files are included within the repository

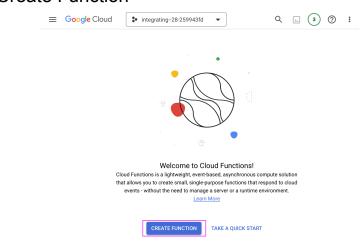


8. Create a Cloud Function

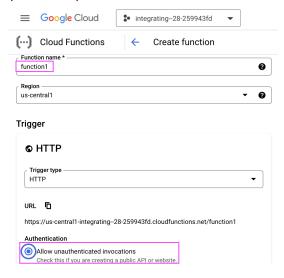
a. "Navigation menu"; "Cloud Functions"



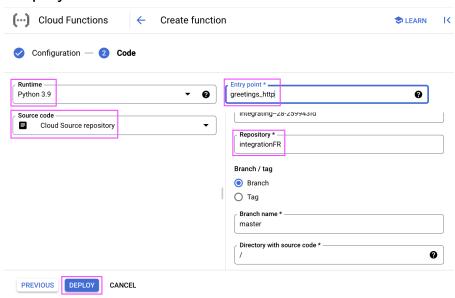
b. "Create Function"



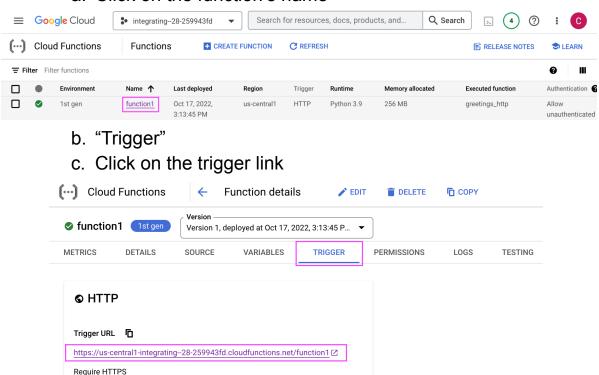
- c. Assign function a "Function name"; ex: function1
- d. Under "Authentication", select "Allow unauthenticated invocations"; "Save"; "Next"



- e. Assign a "Runtime"; ex: "Python 3.9"
- f. For "Source code" choose "Cloud Source repository"
- g. "Entry point"; ex: greetings_http
- h. "Repository"; ex: integrationFR
- i. "Deploy"



- 9. Test the Cloud Function to make sure it's working
 - a. Click on the function's name



d. Web page opens with default message



e. Type "?name=Elisha" at end of URL in search bar; enter



Greetings from Linux Academy, my friend!

Via Source Control Repo

f. Web page now displays the name entered in default message



Greetings from Linux Academy, Elisha!

Via Source Control Repo

- g. In the Cloud Functions tab click on "Testing"
- h. Under the "Configure Triggering Event" section, type inside of brackets: {"name":"Elisha Waller"}
- i. "Test the Function"

