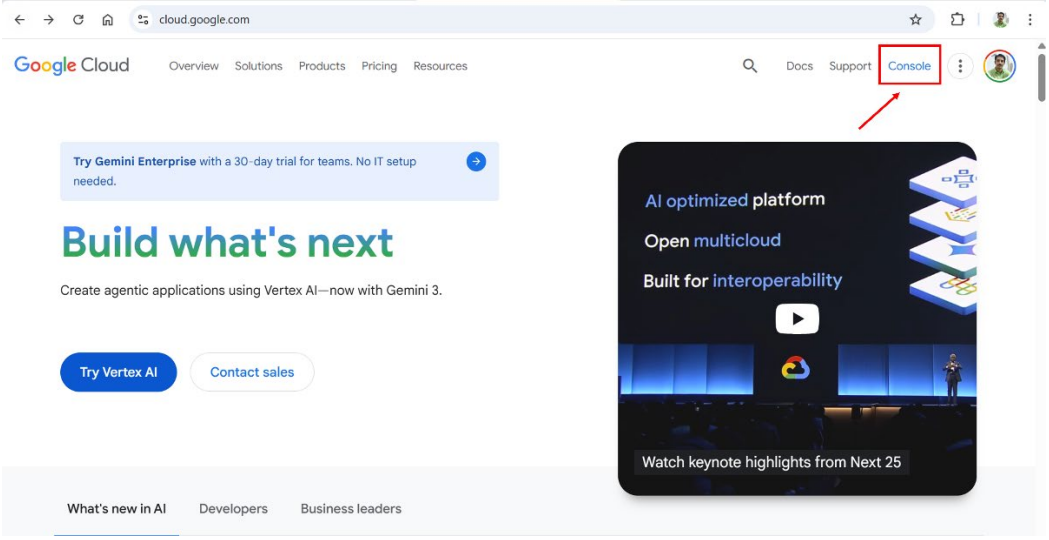
CLOUD COMPUTING LABORATORY

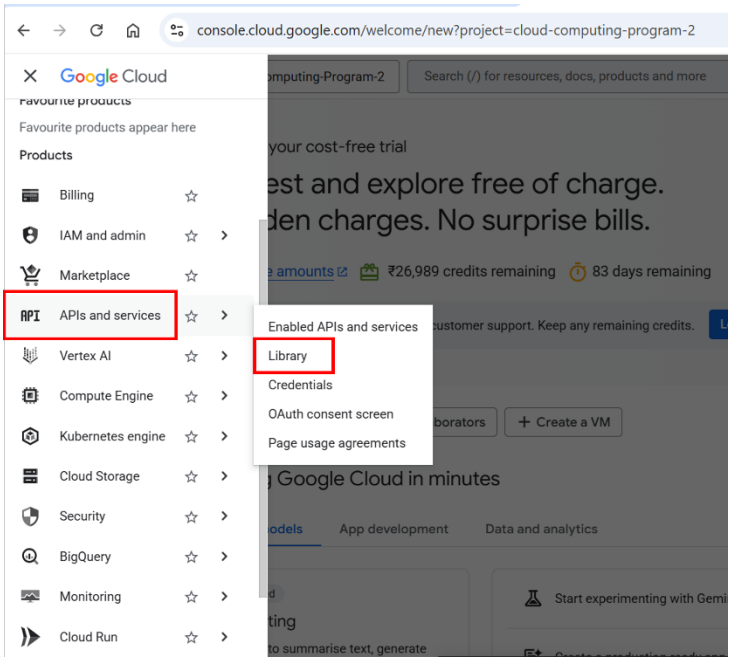
Experiment – 3

Create and deploy a Cloud Function to automate a specific task based on a Cloud Storage event.

Step 1: From the Google Cloud homepage, click on **Console** to open the Google Cloud Console.

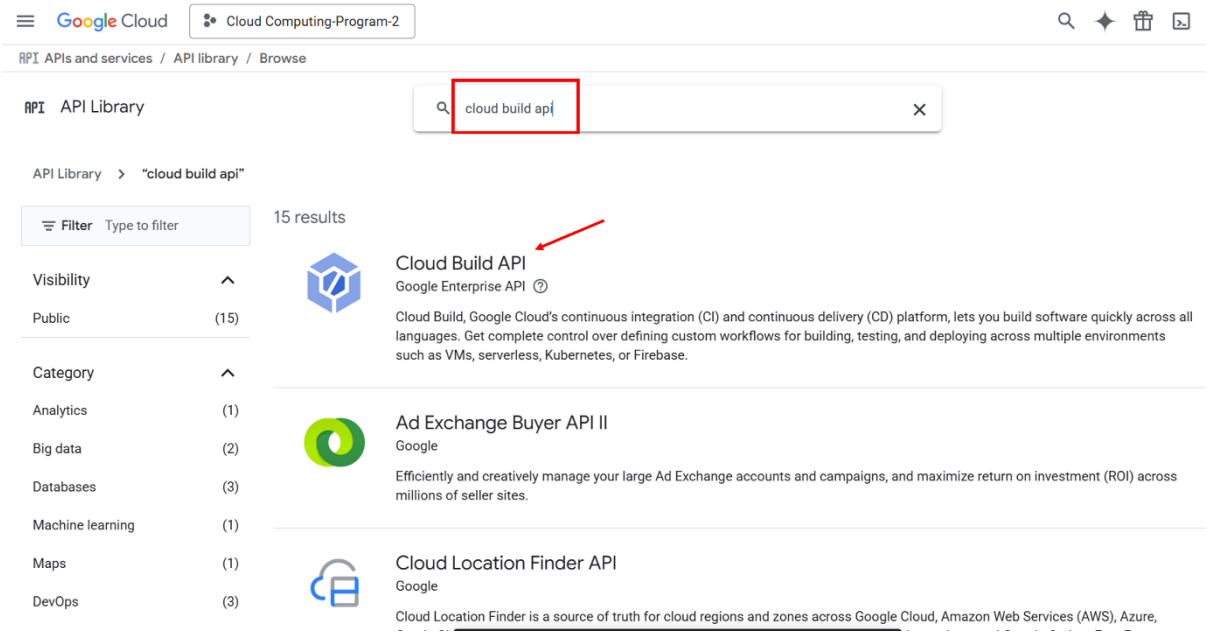


Step 2: Navigate & select **APIs and services** from the Navigation menu, then select **Library** to open the API Library.

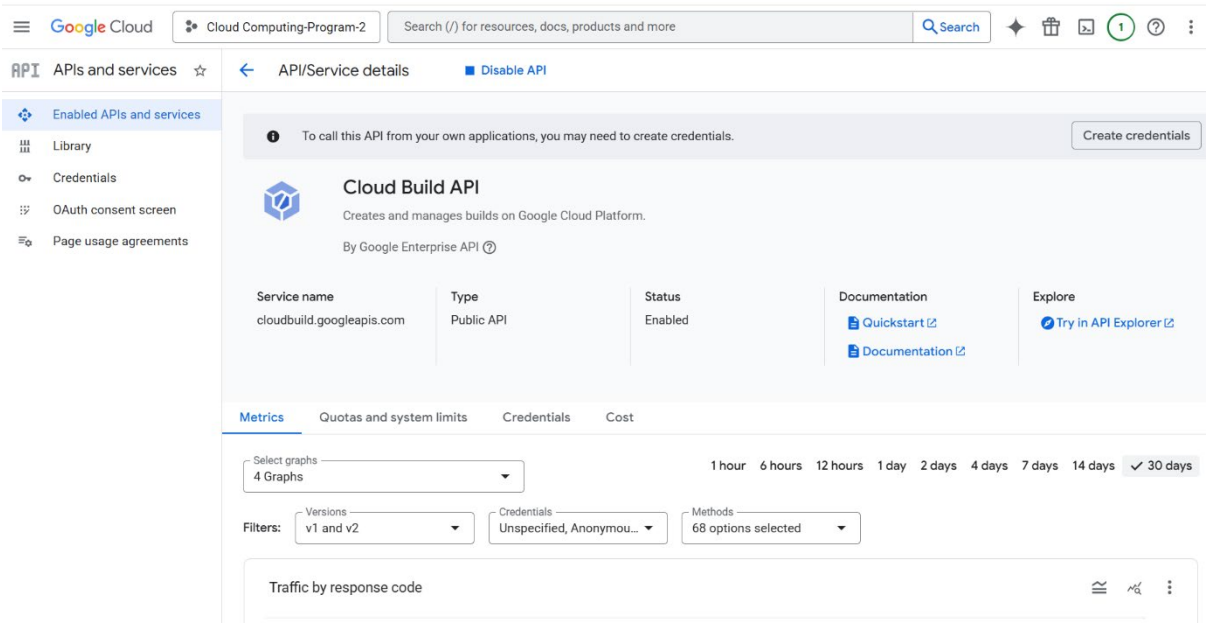


Step 3: In the API Library search bar, type **cloud build api** and select **Cloud Build API** from the results.

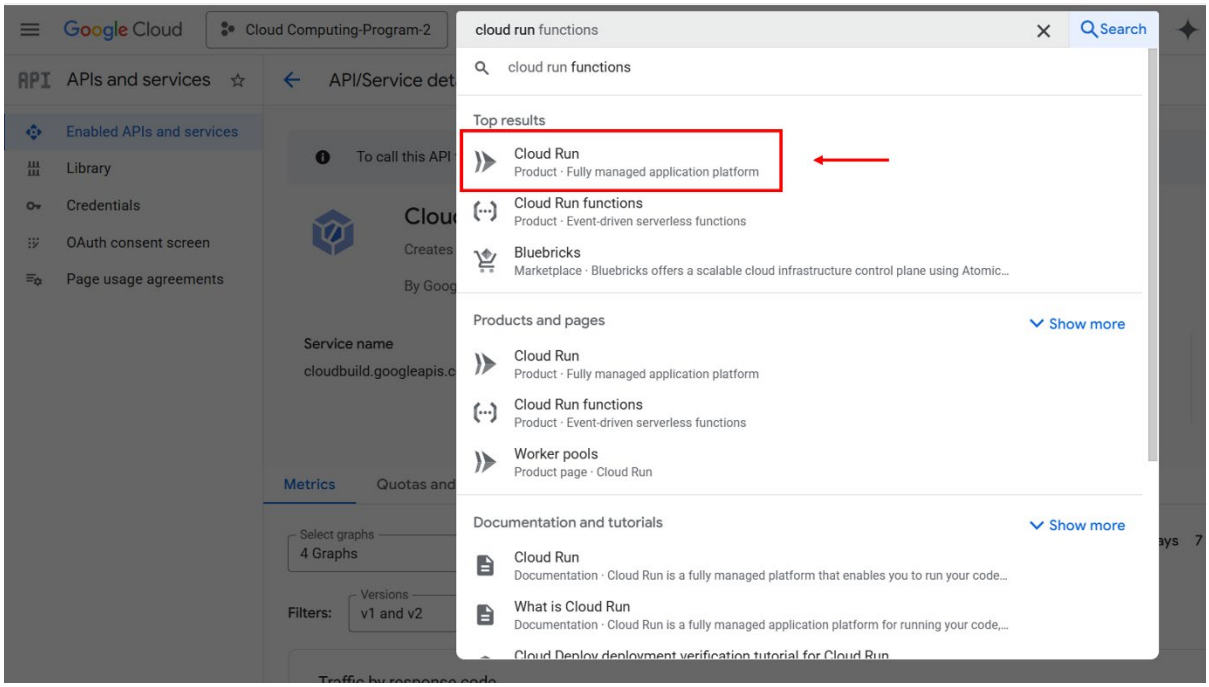
– Click **Enable** to enable the Cloud Build API for the selected project.



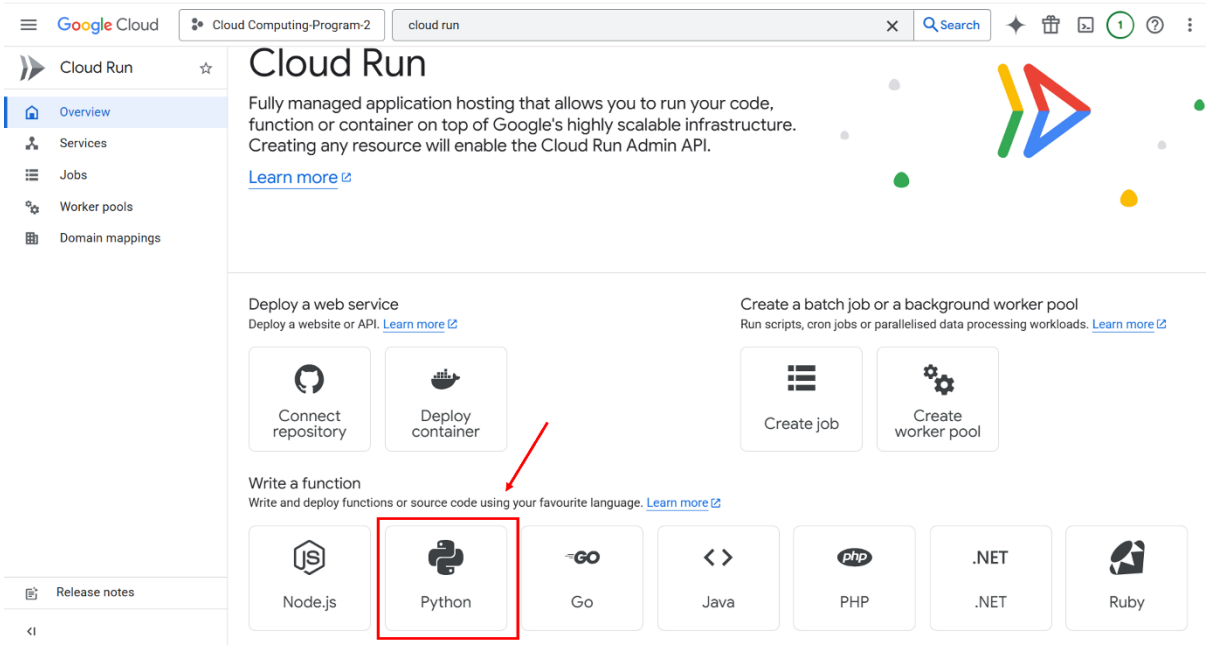
Step 4: This is the API details page where the service is confirmed as **enabled** for the project.



Step 5: In the search bar, type **cloud run** and navigate & select **Cloud Run** from the results.

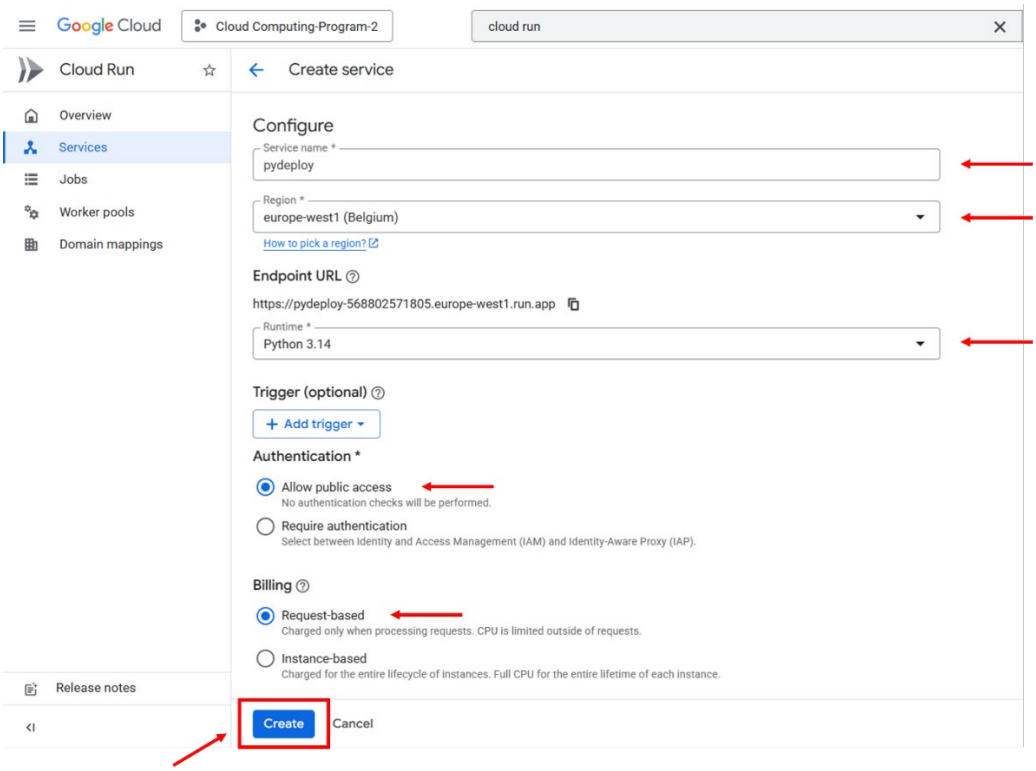


Step 6: From the Cloud Run overview page, under **Write a function**, select **Python** as the runtime *(or any other language of your choice)*.



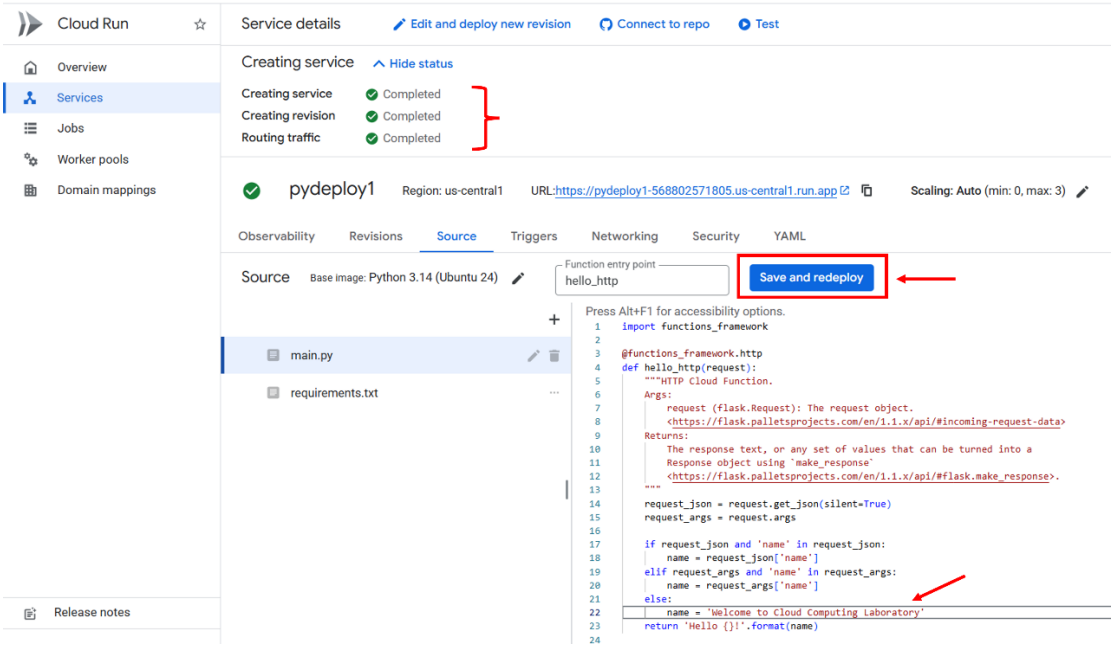
Step 7: Enter the **service name**, choose the **region**, keep the **runtime as Python**, allow **public access**, and select **request-based billing**, then click **Create**.

(Note: public access or Require authentication based on the application requirement and access decision.)

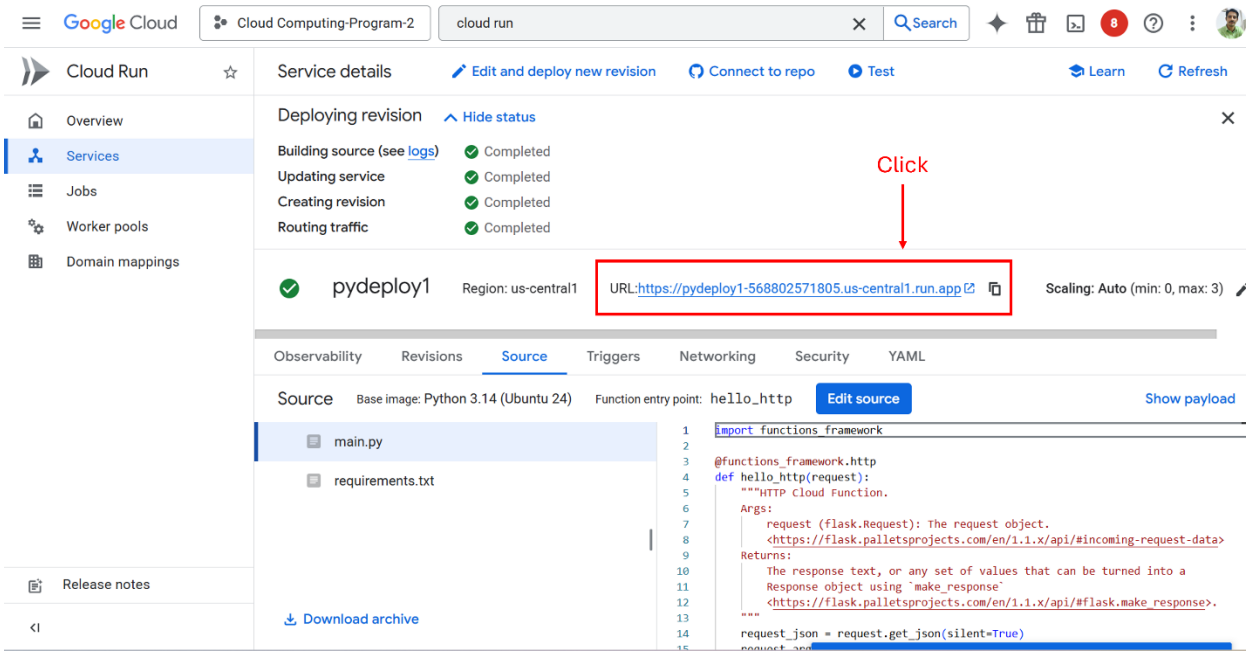


Step 8: Wait until the service creation, revision creation, and traffic routing show **Completed** status.

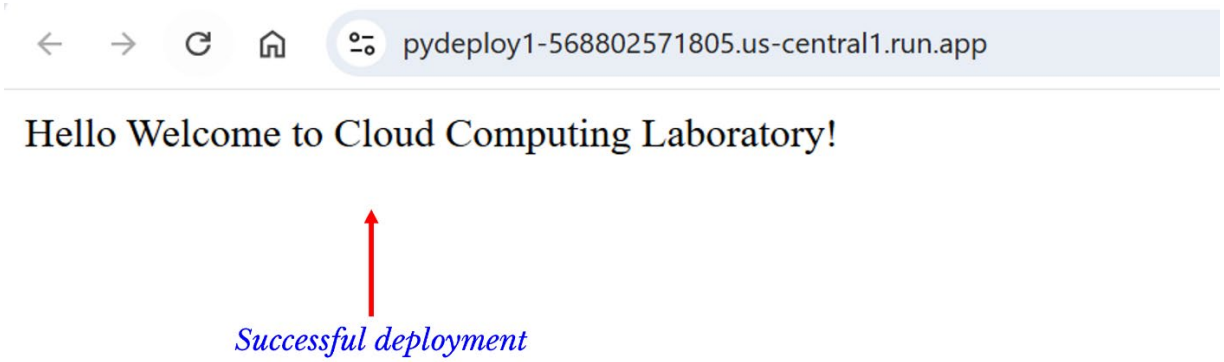
– Modify the response message in the source code if required and click **Save and redeploy** to update the function.



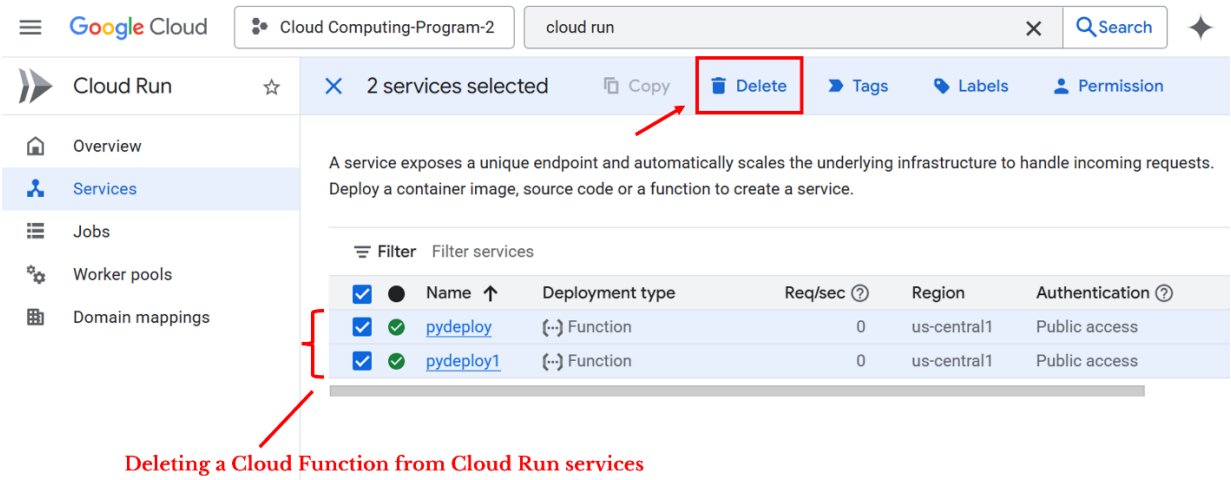
Step 9: After deployment, click the generated **service URL** to test the Cloud Function output in the browser.



Output in browser:



Step 10: To remove the function, navigate & select **Cloud Run → Services**, select the service, and click **Delete**.



Deleting a Cloud Function from Cloud Run services

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