Exercise: Create a function in Cloud Functions for Event Driven Processing

In this exercise, you will:

- Navigate to the Cloud Functions Console Page
- Click Create Function
- Specify configuration details of a function
- Choose a supported language
- Deploy example code
- Verify the function is deployed.

Start by navigating to the Cloud Functions console page shown in Figure 1.

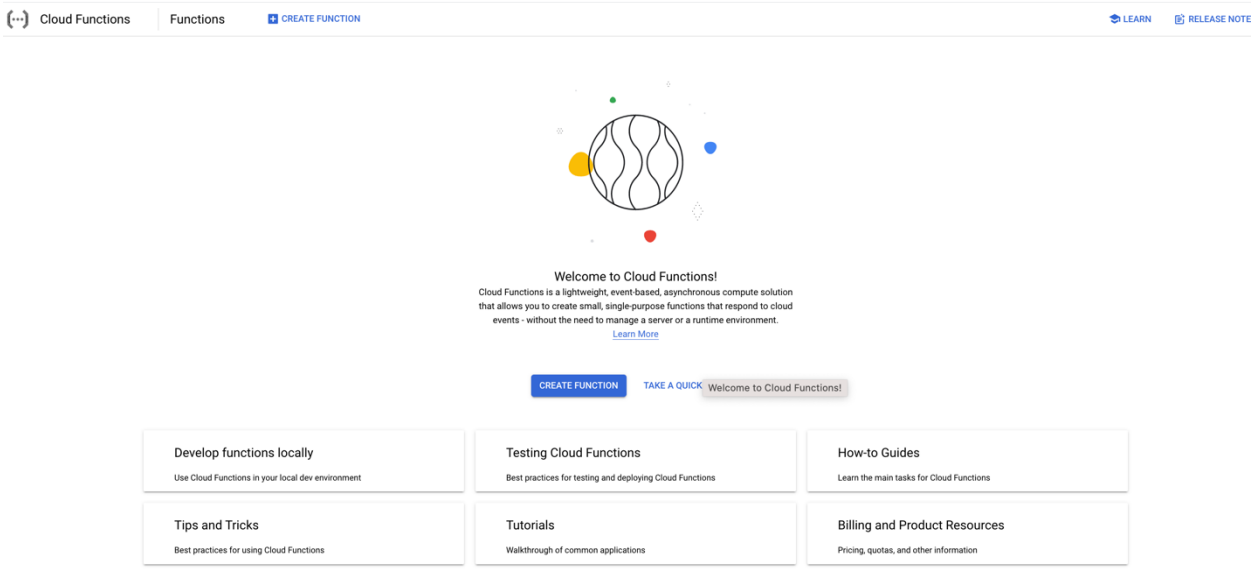

Figure 1. Cloud Functions console page

Click on Create Function to open a page like that shown in Figure 2.

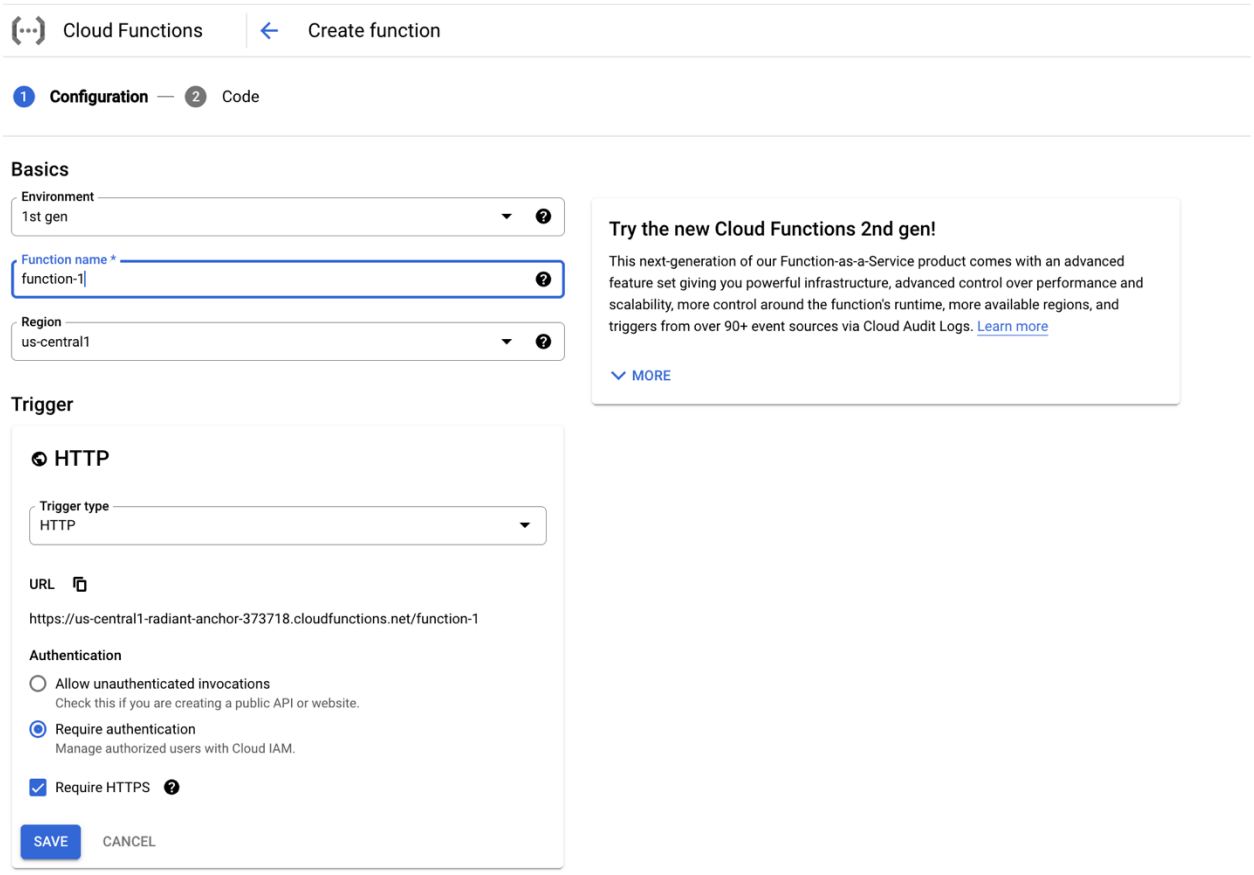

Figure 2. The first part of the Cloud Function specification.

Choose 1st gen environment, a function name, and choose a region. Remember the region, you will create a Cloud Storage bucket in that region later.

Open the drop-down list of Trigger types. (See Figure 3). Choose Cloud Storage.

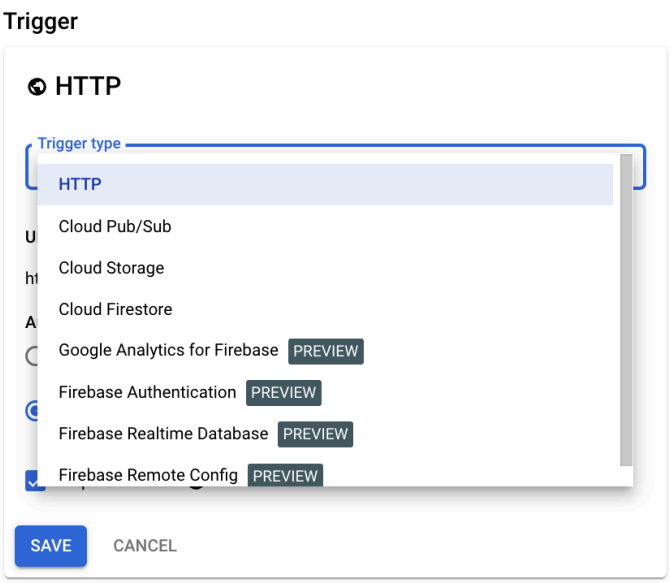

Figure 3. List of Cloud Function trigger types.

After choosing Cloud Storage, the parameters in the Triggers configuration will change to those shown in Figure 4.

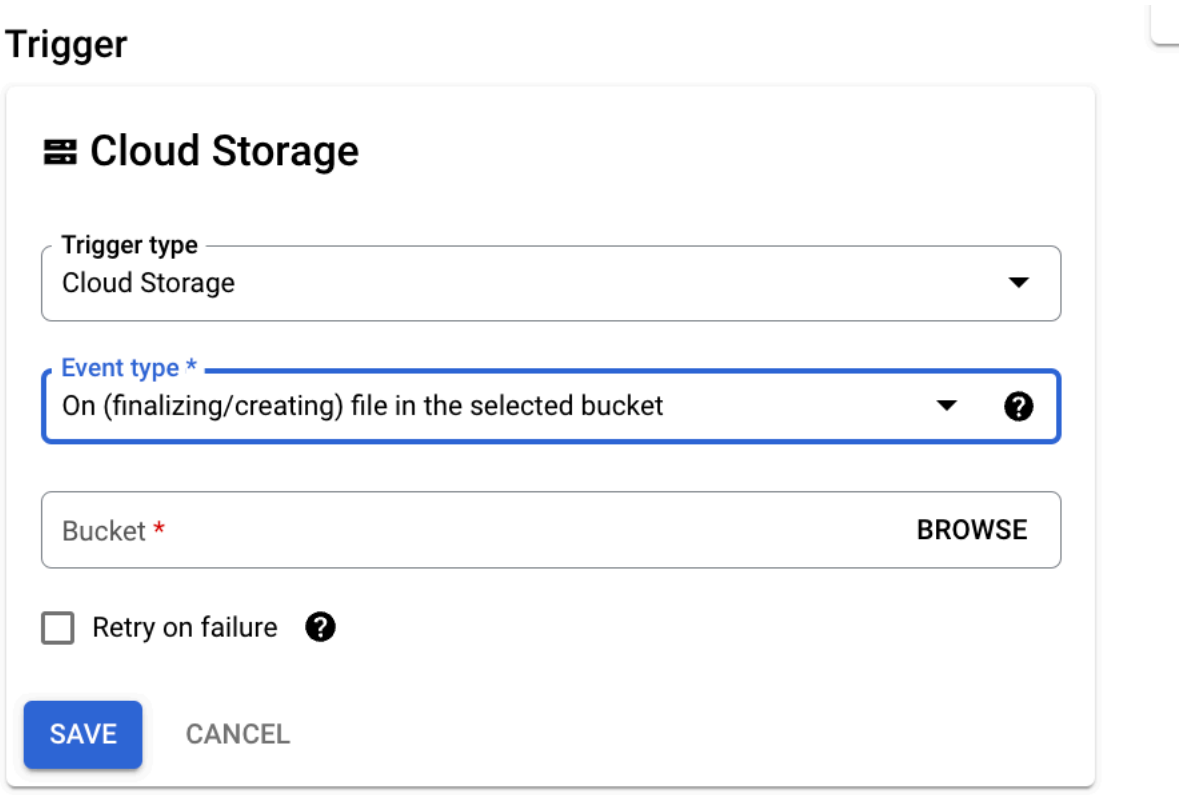

Figure 4. Cloud Storage trigger type configuration options.

Choose event type On (finalizing/creating) file in the selected bucket. Then click on Browse to browse buckets. This will display a pop-up such as in Figure 5.

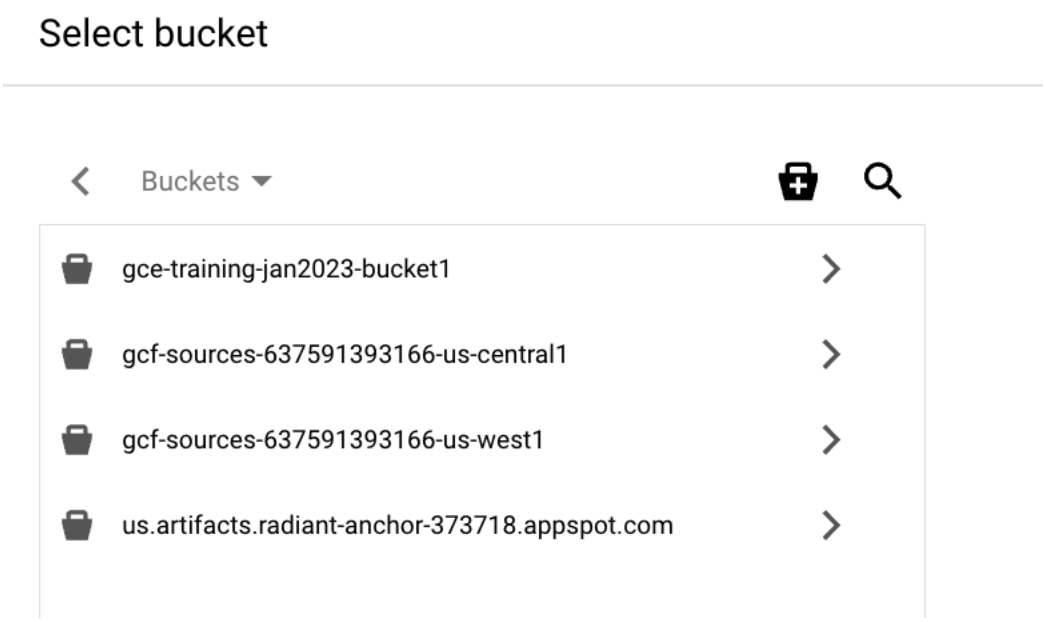

Figure 5. A list of buckets in your project.

Click the bucket icon with the + sign to create a new bucket. This will show a form like in Figure 6. Give the bucket a unique name and click Continue. Specify a region for the bucket using the same region you used to create the Cloud Function and then click Create. This will use defaults for other bucket configuration parameters.

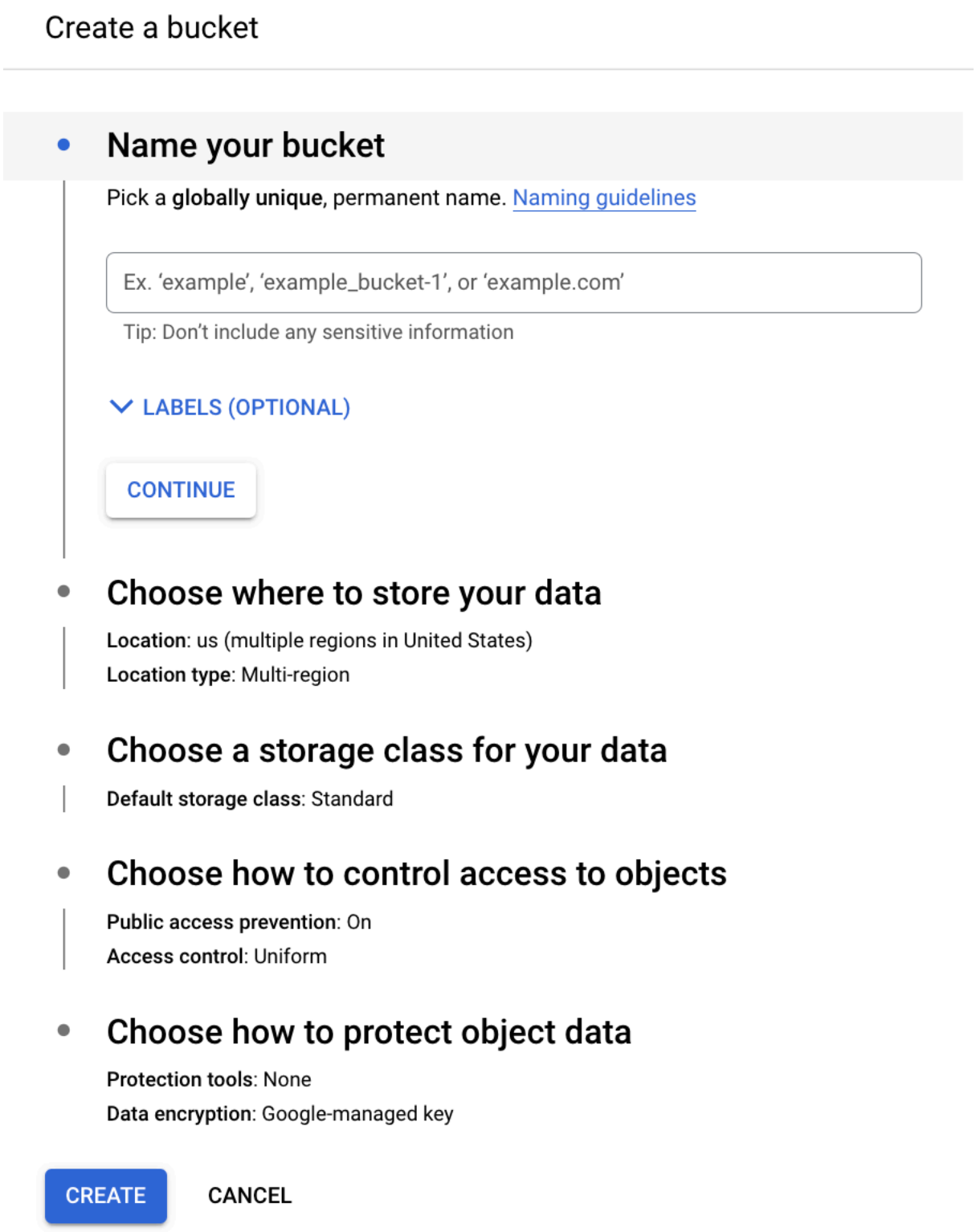

Figure 6. Create a bucket.

Click Next on the bottom of the Create Cloud Functions page to open a page such as shown in Figure 7.

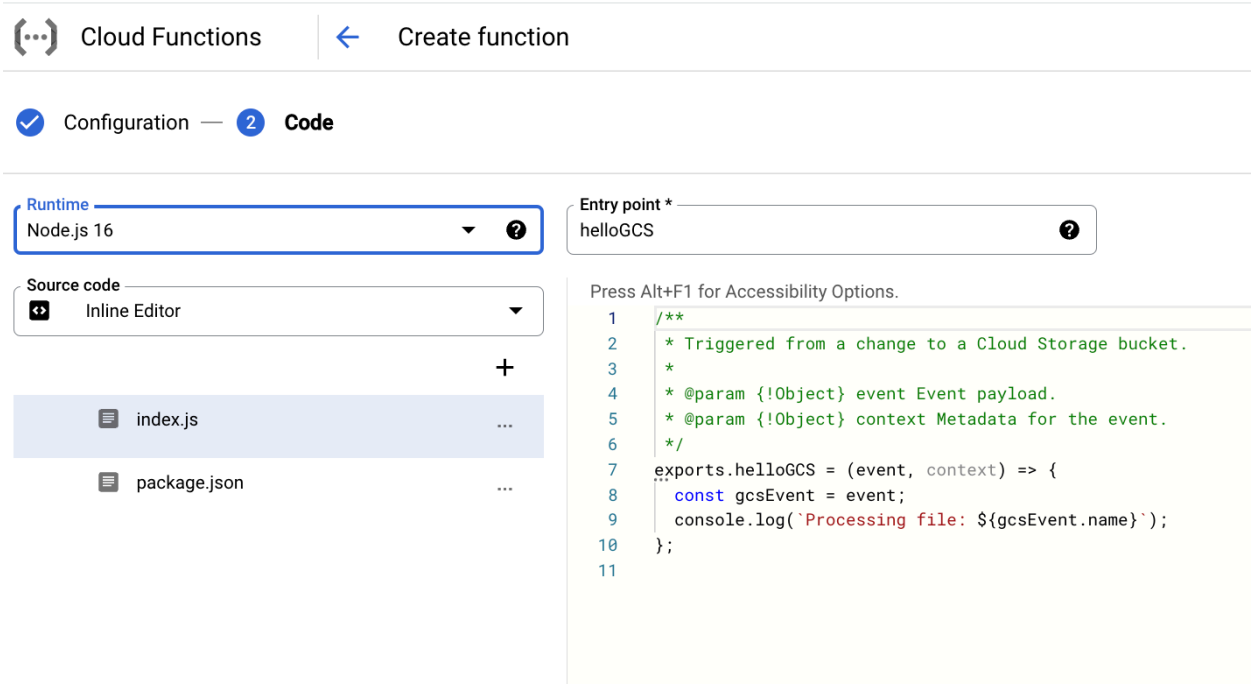

Figure 7. Example function in Node.js.

List the runtime options as shown in Figure 8 and review the different runtimes available.

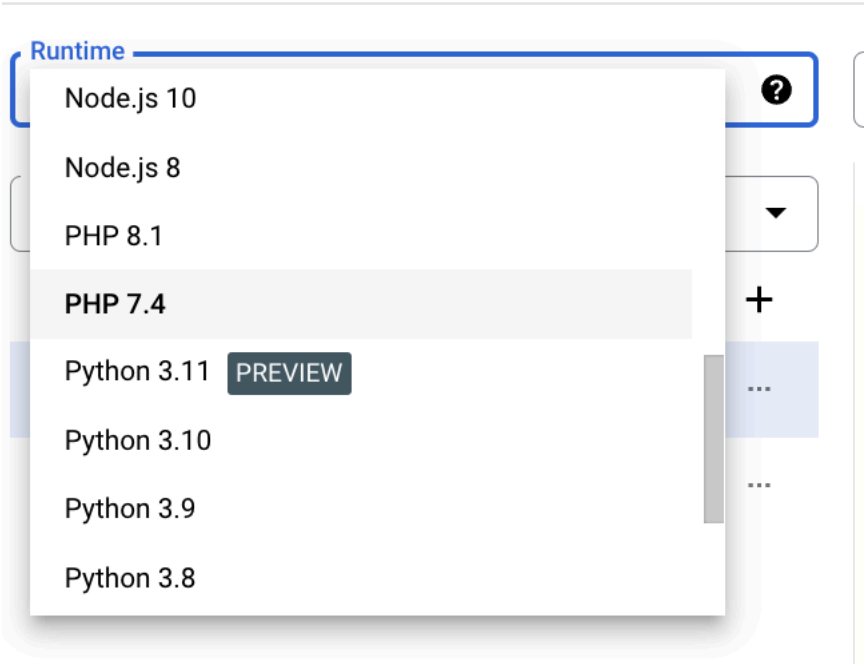

Figure 8. Partial list of runtimes available in Cloud Functions.

Set the runtime to Python 3.10. Click Deploy at the bottom of the form. This will start deploying the function and display a dashboard like in Figure 9.

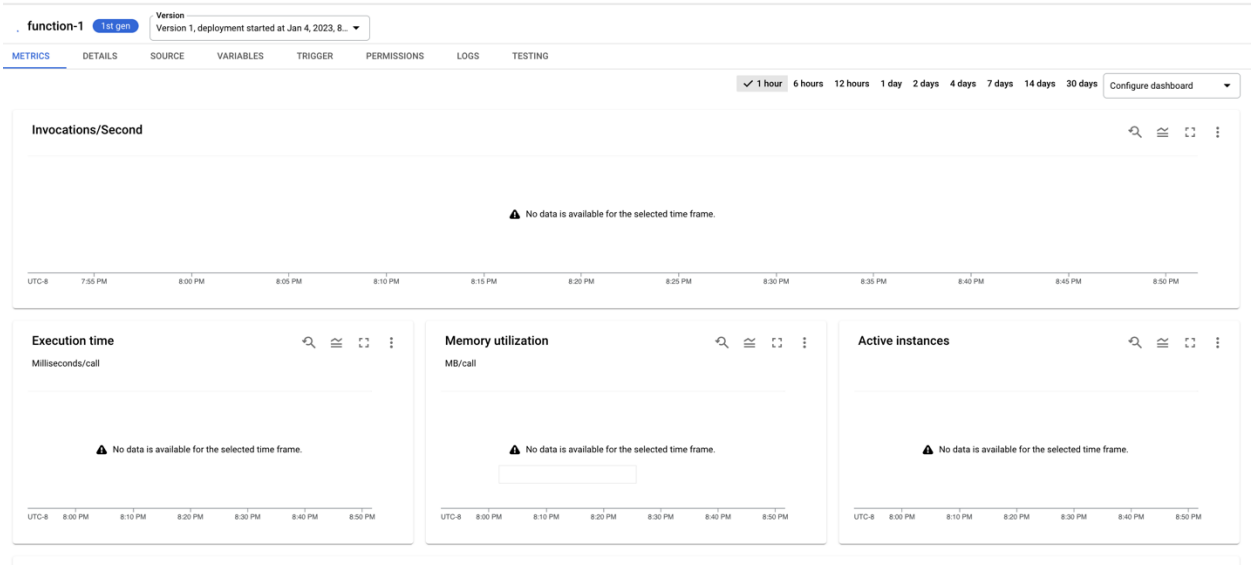

Figure 9. Cloud Function dashboard.

When the function is finished deploying there will be a green checkmark in the upper left near the name of the function. Return to the Cloud Function console page to verify the function is deployed.