

**GCP – HOL -Session 9**

This HOL Session explains how to demonstrates writing, deploying, and triggering an HTTP Cloud Function.

## Objectives

* Write, deploy, and trigger an HTTP Cloud Function.

## Costs

This HOL session uses billable components of Cloud Platform, including:

* Google Cloud Functions

## Before you begin

1. Select or create a GCP project.

**Note**: If you don't plan to keep the resources you create in this procedure, create a new project instead of selecting an existing project. After you finish following these steps, you can delete the project, removing all resources associated with the project.

1. Make sure that billing is enabled for your Google Cloud Platform project.
2. Enable the Cloud Functions API.
3. Update gcloud components:

gcloud components update

1. Prepare your development environment.

## Preparing the application

1. Clone the sample app repository to your local machine:

git clone https://github.com/GoogleCloudPlatform/nodejs-docs-samples.git

Alternatively, you can [download the sample](https://github.com/GoogleCloudPlatform/nodejs-docs-samples/archive/master.zip)as a zip file and extract it.

1. Change to the directory that contains the Cloud Functions sample code:

cd nodejs-docs-samples/functions/helloworld/

1. Take a look at the sample code:

[functions/helloworld/index.js](https://github.com/GoogleCloudPlatform/nodejs-docs-samples/blob/master/functions/helloworld/index.js)

/\*\*  
 \* HTTP Cloud Function.  
 \* This function is exported by index.js, and is executed when  
 \* you make an HTTP request to the deployed function's endpoint.  
 \*  
 \* @param {Object} req Cloud Function request context.  
   
 \* @param {Object} res Cloud Function response context.  
   
 \*/  
exports.helloGET = (req, res) => {  
  res.send('Hello Welcome to GCP Cloud Functions – Revature Training!');  
};

## Deploying the function

To deploy the function with an HTTP trigger, run the following command in the helloworld directory:

gcloud functions deploy helloGET --runtime nodejs8 --trigger-http

## Triggering the function

To make an HTTP request to your function, run the following command:

curl "https://***REGION***-***PROJECT\_ID***.cloudfunctions.net/helloGET"

where

* **REGION** is the region where your function is deployed. This is visible in your terminal when your function finishes deploying.
* **PROJECT\_ID** is your Cloud project ID. This is visible in your terminal when your function finishes deploying.

You can also visit the deployed function's endpoint in your browser to see the "Hello World!" message.

## Cleaning up

To avoid incurring charges to your Google Cloud Platform account for the resources used in this HOL session: