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Beta

This is a Beta release of Google Cloud Functions. This API might be changed in backward-incompatible ways and is not subject to any SLA or deprecation policy.

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This page shows you how to create and deploy a Cloud Function using the gcloud command-line tool.

Before you begin

Sign in to your Google account.

If you don't already have one, sign up for a new account.

2. Select or create a Cloud Platform project.

GO TO THE PROJECTS PAGE

3. Enable billing for your project.

ENABLE BILLING

4. Enable the Cloud Functions API. **ENABLE THE API**

5. Install and initialize the Cloud SDK.

6. Update and install gcloud components:

```
gcloud components update &&
gcloud components install beta
```

7. Prepare your environment for Node.js development.

GO TO THE SETUP GUIDE

Create a function

1. Create a directory on your local system for the function code:

```
LINUX OR MAC OS X
                          WINDOWS
Create the directory:
mkdir ~/gcf_hello_world
Move into the directory:
cd ~/gcf_hello_world
```

Create an index.js file in the gcf_hello_world directory with the following contents:

NODE.JS

```
VIEW ON GITHUB
                                                                                     FEEDBACK
/**
 * Cloud Function.
* @param {object} event The Cloud Functions event.
 * @param {function} The callback function.
exports.helloWorld = function helloWorld (event, callback) {
 console.log(`My Cloud Function: ${event.data.message}`);
  callback();
};
```

This is a simple function named helloWorld that writes a message to the Cloud Functions logs.

Create a Cloud Storage bucket

Create a new Cloud Storage bucket for your function:

```
gsutil mb -p [PROJECT_ID] gs://[BUCKET_NAME]
```

where:

- [PROJECT_ID] is the ID of your project
- [BUCKET_NAME] is a globally-unique bucket name.

Deploy a function

Deploy the function with a Pub/Sub topic named hello_world:

```
gcloud beta functions deploy helloWorld --stage-bucket [BUCKET_NAME] --trigger-topic hello_world
```

It might take a few minutes to deploy the function the first time.

gcloud beta functions describe helloWorld

Note: [BUCKET_NAME] is the name of the bucket without the gs:// protocol identifier before the name.

2. Verify the status of the function:

A READY status indicates that the function has been deployed:

```
status: READY
triggers:
  pubsubTopic: projects/[PROJECT_ID]/topics/hello_world
```

Test the function

Test the function from the command line:

executionId: eTe2m2-RVmJU-0

```
LINUX OR MAC OS X
                          WINDOWS
gcloud beta functions call helloWorld --data '{"message":"Hello World!"}'
The gcloud tool returns the execution ID for the function, which looks something like this:
```

View logs

Check the logs to see your actions in the log history:

```
gcloud beta functions logs read helloWorld
```

If the function executed successfully, messages in the log appear as follows:

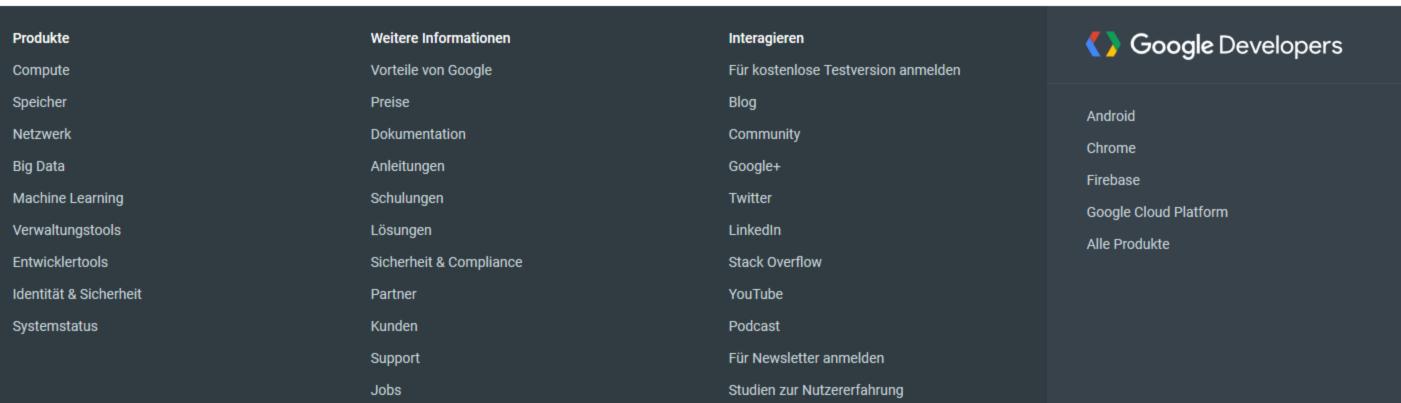
```
LEVEL NAME
                  EXECUTION_ID TIME_UTC
                                                         LOG
      helloWorld -
                                 2016-03-17 20:35:41.043 User function helloWorld loaded
D
D
      helloWorld eTe2m2-RVmJU-0 2016-03-17 20:45:18.334 User function triggered, starting executi
Ι
      helloWorld eTe2m2-RVmJU-0 2016-03-17 20:45:18.335 My Cloud Function: Hello World!
D
      helloWorld eTe2m2-RVmJU-0 2016-03-17 20:45:18.335 Execution took 2 ms, user function comple
```

What's next

- Learn more about writing Cloud Functions. Learn more about deploying Cloud Functions.
- Learn more about calling Cloud Functions.
- Learn more about monitoring Cloud Functions. Learn more about running Cloud Functions locally.
- Explore the more advanced Cloud Functions tutorials.

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