PROFESSIONAL DATA ENGINEER - Google Cloud Platform

TITLE: "Introduction to Google Cloud - Cloud Function"

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HTTP Google Cloud Functions in Python

Task 1 - Start Cloud Shell

- We will be using Google Cloud Shell, a command line environment running in the Cloud.
- Activate Cloud Shell: From the Cloud Console, click Activate Cloud Shell.
- This virtual machine is loaded with all the development tools you need. It offers a persistent 5GB home directory
 and runs in Google Cloud, greatly enhancing network performance and authentication. Much, if not all, of your
 work in this codelab can be done with simply a browser or your Chromebook.
- Once connected to Cloud Shell, you should see that you are already authenticated and that the project is already set to your project ID.
- Run the following command in Cloud Shell to confirm that you are authenticated:
 - o gcloud auth list
- Run the following command in Cloud Shell to confirm that the gcloud command knows about your project:
 - o gcloud config list project

Task 2 - Ensure the Cloud Functions and Cloud Build APIs are enabled

 Run the following command from Cloud Shell to make sure the Cloud Functions and Cloud Build APIs are enabled:

- gcloud services enable cloudfunctions.googleapis.com cloudbuild.googleapis.com
- Note: Cloud Build will be called by the gcloud functions deploy command and will automatically build your code into a container image.

Task 3 - Create a function

- In this step, you're going to create a cloud function using the console.
- In the console, click the Navigation menu (Navigation Menu icon) > Cloud Functions.
- · Click Create function.
- In the Create function dialog, enter the following values:
- 1. Function name ---- GCFunction
- 2. Trigger type ---- Select HTTP and click Save
- 3. Memory allocated (In Runtime, Build, Connections and Security Settings) ---- Keep it default
- 4. Autoscaling Set the Maximum number of instance to 5 and then ---- click Next
- 5. You deploy the function in the next section.

Task 4 - Deploy the function

- 1. Still in the Create function dialog, in Source code for Inline editor use the default helloWorld function implementation already provided for index.js.
- 2. At the bottom, click Deploy to deploy the function.
- 3. After you click Deploy, the console redirects to the Cloud Functions Overview page.
- 4. While the function is being deployed, the icon next to it is a small spinner. When it's deployed, the spinner is a green check mark.

Task 5 - Test the function

- Test the deployed function.
- In the Cloud Functions Overview page, display the menu for your function, and click Test function.
- In the Triggering event field, enter the following text between the brackets and click Test the function.
- In the Output field, you should see the message Success: Hello Cloud & Al Analytics!
- In the Logs field, a status code of 200 indicates success. (It may take a minute for the logs to appear.)

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