**Lab - Google Cloud Fundamentals: Getting Started with Cloud Storage and Cloud SQL**

In this lab, you learn how to perform the following tasks:

* Initialize App Engine.
* Preview an App Engine application running locally in Cloud Shell.
* Deploy an App Engine application, so that others can reach it.
* Disable an App Engine application, when you no longer want it to be visible.

**Steps:**

1. **Initialize App Engine**

* You can list the active account name with this command

*gcloud auth list*

* Response:

Credentialed Accounts

ACTIVE ACCOUNT

\* [student-04-5d06a92ef5a4@qwiklabs.net](mailto:student-04-5d06a92ef5a4@qwiklabs.net)

- You can list the project ID with this command:

*gcloud config list project*

Response:

[core]

project = qwiklabs-gcp-04-feaa5ea562e4

* Initialize your App Engine app with your project and choose its region:

*gcloud app create --project=$DEVSHELL\_PROJECT\_ID*

Result:

Prompted to select the region where the App Engine application located.

Please enter your numeric choice: Entered “14“ and pressed enter (us-central)

* Clone the source code repository for a sample application in the hello\_world directory:

git clone <https://github.com/GoogleCloudPlatform/python-docs-samples>

* Navigate to the source directory:

cd python-docs-samples/appengine/standard\_python3/hello\_world

1. **Run Hello World application locally**

* Execute the following command to download and update the packages list.

*sudo apt-get update*

* Set up a virtual environment in which you will run your application. Python virtual environments are used to isolate package installations from the system:

*sudo apt-get install virtualenv*

Result: Was prompted [Y/n], press Y and then Enter.

* Activate the virtual environment.

*source venv/bin/activate*

* Navigate to your project directory and install dependencies.

*pip install -r requirements.txt*

* Run the application:

*python main.py*

* To access the Web preview of application.

*Enter in* [*https://8080-dot-13975384-dot-devshell.appspot.com/?authuser=3*](https://8080-dot-13975384-dot-devshell.appspot.com/?authuser=3) *in the browser and click enter.*

Response:

Hello World!

1. **Deploy and run Hello World on App Engine**

* Navigate to the source directory:

*cd ~/python-docs-samples/appengine/standard\_python3/hello\_world*

* Deploy your Hello World application:

*gcloud app deploy*

Result: Was prompted Do you want to continue [Y/n]?, press Y and then Enter.

* Launch your browser to view the app at <http://YOUR_PROJECT_ID.appspot.com>

*gcloud app browse*

* Copy and paste the URL into a new browser window:

<https://qwiklabs-gcp-04-feaa5ea562e4.uc.r.appspot.com/>

Result: Hello World

1. **Disable the application**

* Disable deployed application

*gcloud app versions stop v1*

* *Confirm Services have been disabled*

*gcurl*[*https://serviceusage.googleapis.com/v1/projects/qwiklabs-gcp-04-feaa5ea562e4/services?filter=state:DISABLED*](https://serviceusage.googleapis.com/v1/projects/qwiklabs-gcp-04-feaa5ea562e4/services?filter=state:DISABLED)