Getting an App to Scan on GCloud

In this lab, you will deploy a sample Hello World application to run Security Scanner on. Run the following command in Cloud Shell to clone the Hello World sample app repository:

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

Then go to the directory that contains the sample code:

cd python-docs-samples/appengine/standard\_python37/hello\_world

Test App

From within the hello\_world directory where the app's app.yaml configuration file is located, start the local development server with the following command:

dev\_appserver.py app.yaml

The local development server is now running and listening for requests on port 8080. Click on the web preview button in Cloud Shell, and select Preview on port 8080 to see it:

bde9fe42e27656fb.png

(If you cannot see the web preview icon, close the Navigation menu, top left corner.)

Press Ctrl+c to stop the local app and return to the command line.

Deploy App

Deploy your app to App Engine by running the following command from within the root directory of your application (hello\_world):

gcloud app deploy

You'll be asked to select a region. Choose the number for one that is near where you are.

After the app is created in your lab, you'll be asked if you want to continue. Click Y to continue.

Deployment of your app will then begin.

View App

To launch the app in your browser, run the following command:

gcloud app browse

There will be a link in Cloud Shell that you can use, or view the app at http://[YOUR\_PROJECT\_ID].appspot.com. This is the URL you'll scan for vulnerabilities and it will be added to your scan parameters in the next step.

Test Completed Task

Click Check my progress to verify your performed task. If you have completed the task successfully you will granted with an assessment score.

Deploy sample App Engine application.

Run the scan

The scan does not run immediately, but is queued for later execution; it can take hours before the scan executes, depending on current load. For more information about these form settings, see Using Cloud Security Scanner.

Go to Navigation menu > App Engine > Security scans:

enable-api.png

Click Enable API > Create scan.

Under Starting URLs, enter the URL of the application you want to scan.

new\_scan.png

Click Save to create the scan.

Click Run to start scanning:

506d9de6bb390881.png

The scan will be queued, and you can watch the status bar progress as it scans. The scan overview page displays a results section when the scan completes. The following image shows example scan results when no vulnerabilities are detected:

status1.png

Note: Try refreshing the page if you aren't seeing any updates.

Nice job! You just completed a scan using Cloud Security Scanner. You will see a warning to let you know that only scanning 1 URL isn't ideal. This lab is just to demonstrate a simple example. Your production environment will have plenty of URLs to scan.

Test your Understanding

Below are multiple-choice questions to reinforce your understanding of this lab's concepts. Answer them to the best of your abilities.

Cloud Security Scanner is a web security scanner for common vulnerabilities in Google App Engine applications.

Congratulations!