

May only be taught by Google Cloud Platform Authorized Trainers

Lab Overview: Getting Started with Cloud Datastore

Overview In this lab you explore Google App Engine using the Guestbook sample application. Guestbook uses Cloud Datastore to store application data. You deploy the application to the App Engine production environment, and then you verify it.

Duration The timing of this lab is as follows:

Component	Timing
Introduction	5 minutes
Lab	20 minutes
Total	25 minutes

What you need To complete this lab, you need:

- The Google Cloud SDK installed and configured on your labs instance
 - A Google Cloud project and project ID
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What you will learn In this lab, you:

- Deploy an App Engine application that uses Cloud Datastore to the production environment
 - Use the Datastore Viewer to view application data in Cloud Datastore
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Python Lab: Getting Started with Cloud Datastore

Overview In this lab, you explore Google App Engine using the Guestbook sample application. The application used in this lab writes application data to Cloud Datastore. In the lab you:

- Deploy an App Engine application to the production environment
 - Use the Datastore Viewer to view application data in Cloud Datastore
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Clone the project When you created your Compute Engine labs instance, you installed Git on the machine. In this section of the lab, you use Git to clone the repository containing your application.

To clone the project:

Step	Action
1	Access the Google Developers Console by typing the following URL in your browser: https://console.developers.google.com
2	In the navigator pane, click the Products & services icon (to the left of Google Developers Console at the top of the page).
3	Click Compute Engine > VM instances .
4	To the right of the cp100-labs instance, in the Connect column, click SSH .
5	Type the following command to clone the code repository. <pre>git clone \ https://github.com/GoogleCloudPlatformTraining/ cp100-appengine-datastore-python.git</pre>
12	Leave the SSH connection open.

Deploy remotely

To deploy and test the Guestbook application:

Step	Action
1	In the SSH window, type the following command to change to the cp100-appengine-datastore-python directory. cd cp100-appengine-datastore-python
2	To deploy the application to production, type the following command and replace <Project ID> with the ID of your cp100 project. You can view your Project ID in the title bar of the SSH window if you did not note it previously. appcfg.py -A <Project ID> update . --noauth_local_webserver
3	When the application is successfully deployed, in the Google Developers Console, click Products & services > Datastore > Indexes .
4	Observe the status of the Greeting index. It should change from "Preparing" to "Serving." This will take several minutes.
5	Once the index status changes to "Serving," open a new browser tab, type the following URL, and replace <Project ID> with the ID of your cp100 project. http://<Project ID>.appspot.com Leave the browser tab open.
6	You should see the Guestbook application loaded in the browser. Leave the Guestbook tab open.
7	Switch to your SSH window and type exit to close it.

View data To examine the application data stored in Cloud Datastore:

Step	Action
1	On the Guestbook tab in your browser, create a few entries in the Guestbook application.
2	Switch to the Google Developers Console .
3	Click Products & services > Datastore > Entities and examine the Kind, entities, and data. Click the individual Name/ID values to examine the data.
4	Close the Guestbook tab in your browser. Leave the Google Developers Console open.

Clean up There is no need for you to remove the resources used in this lab.
