Lab 5 Notebook

5.1

2. **What role is attached to the Compute Engine default service account?**

   The default service account has the Editor role.

   Would it be sufficient for the VM to perform its functions (i.e. creating buckets and reading/writing objects in them)?

   I'm not sure how to tell, but with the thousands of roles allowed, it should be sufficient.

   What permissions are given by the default access scope to Cloud Storage?

   "Default: read-only access to Storage and Service Management, write access to Stackdriver Logging and Monitoring, read/write access to Service Control."

   Would they be sufficient for the VM to perform its functions (i.e. creating buckets and reading/writing objects in them)?

   I don't think so. If creating/writing to buckets is part of storage management, then the VM only has read-only access.

   What settings are possible for setting the VM's access to the Storage API?

   Read only, Write only, Read write, and Full.

4. **What `time` did the latest earthquake happen?**

   October 24th, 2023.

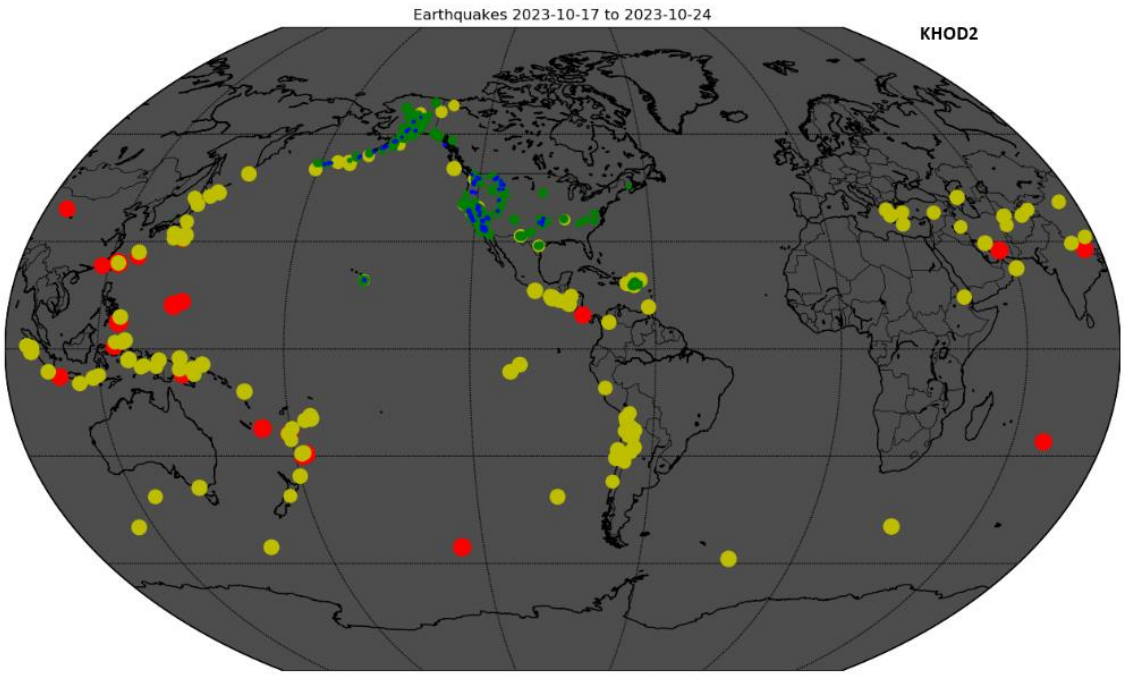
   What was the magnitude (`mag`)?

   0.9.

Where was the `place` it happened?

Southern Alaska.

5. **Take a screenshot of the image that has been created for your lab notebook.**



9. **What is the exact error message that is returned?**

ERROR: (gcloud.compute.instances.list) Some requests did not succeed:
- Required 'compute.instances.list' permission for 'projects/cloud-khodakovskiy-khod2'

What role needs to be added to the service account's permissions for the VM to have access to list the project's Compute Engine instances?

Since nothing came up when I filtered by “list compute instances”, the closest role I could find that had minimal permissions was “Compute Instance Admin (Beta)”.

Take a screenshot of the output for your notebook.

```
khod2@gcs-lab-vm:~$ gcloud compute instances list
NAME          ZONE          MACHINE_TYPE  PREEMPTIBLE  INTERNAL_IP  EXTERNAL_IP     STATUS
course-vm-us  us-west1-b    e2-medium                  10.138.0.8                   TERMINATED
course-vm     asia-east1-b  e2-medium                  10.140.0.4                   TERMINATED
gcs-lab-vm    us-west4-c    e2-medium                  10.182.0.3   34.125.217.163  RUNNING
usgs          us-west4-c    e2-medium                  10.182.0.2                   TERMINATED
khod2@gcs-lab-vm:~$
```

10. **What is the exact error message that is returned?**

    AccessDeniedException: 403 gcs-lab@cloud-khodakovskiy-khod2.iam.gserviceaccount.com does not have storage.objects.create access to the Google Cloud Storage object. Permission 'storage.objects.create' denied on resource (or it may not exist).

What role needs to be added to the service account's permissions for the VM to have access to add an object to a storage bucket?

It should be Storage Object Creator.

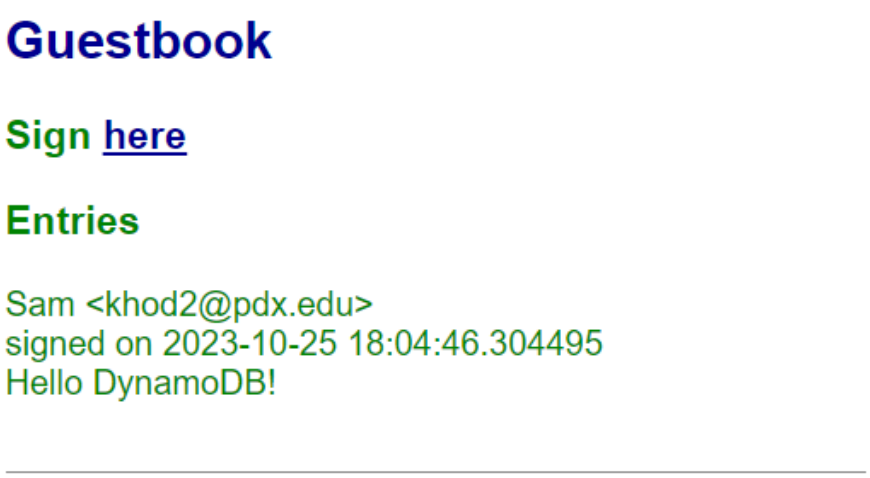
Take a screenshot of the output for your notebook.

```
Copying file://moonquakes.png [Content-Type=image/png]...
/ [1 files][315.3 KiB/315.3 KiB]
Operation completed over 1 objects/315.3 KiB.
khod2@gcs-lab-vm:~$
```

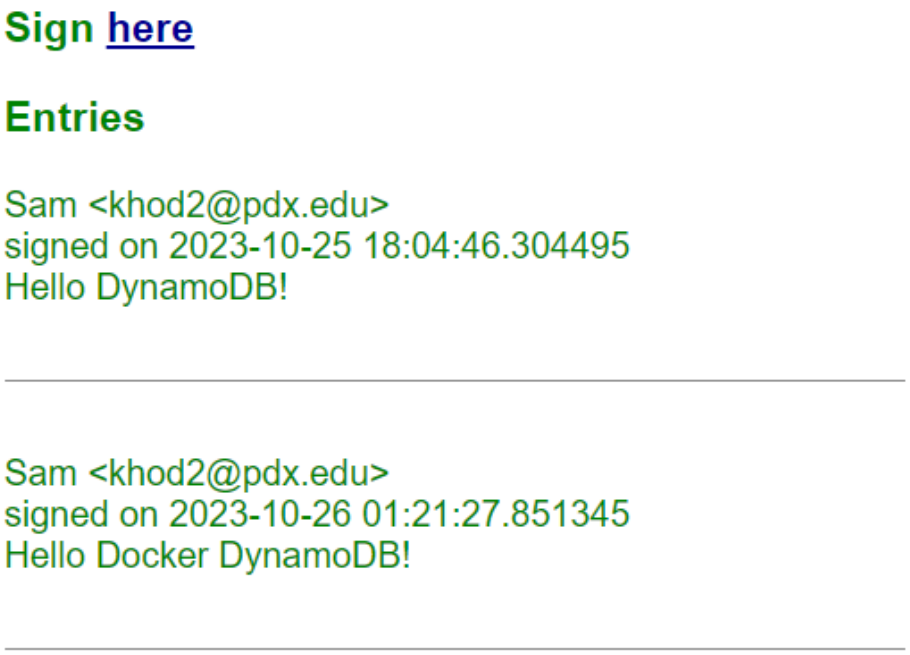
13. **Take a screenshot the shows the entire URL and the image that has been retrieved:**

5.2a

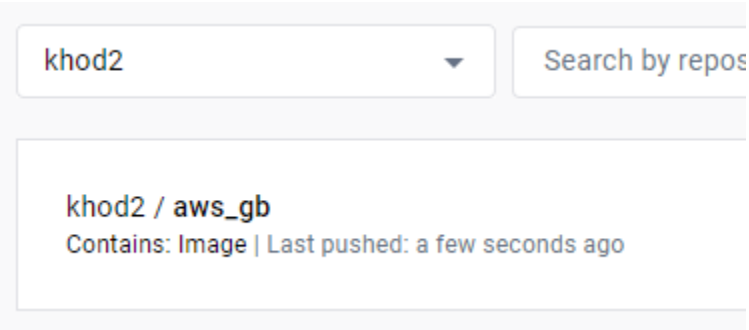
5. **Take a screenshot of the output for your lab notebook.**



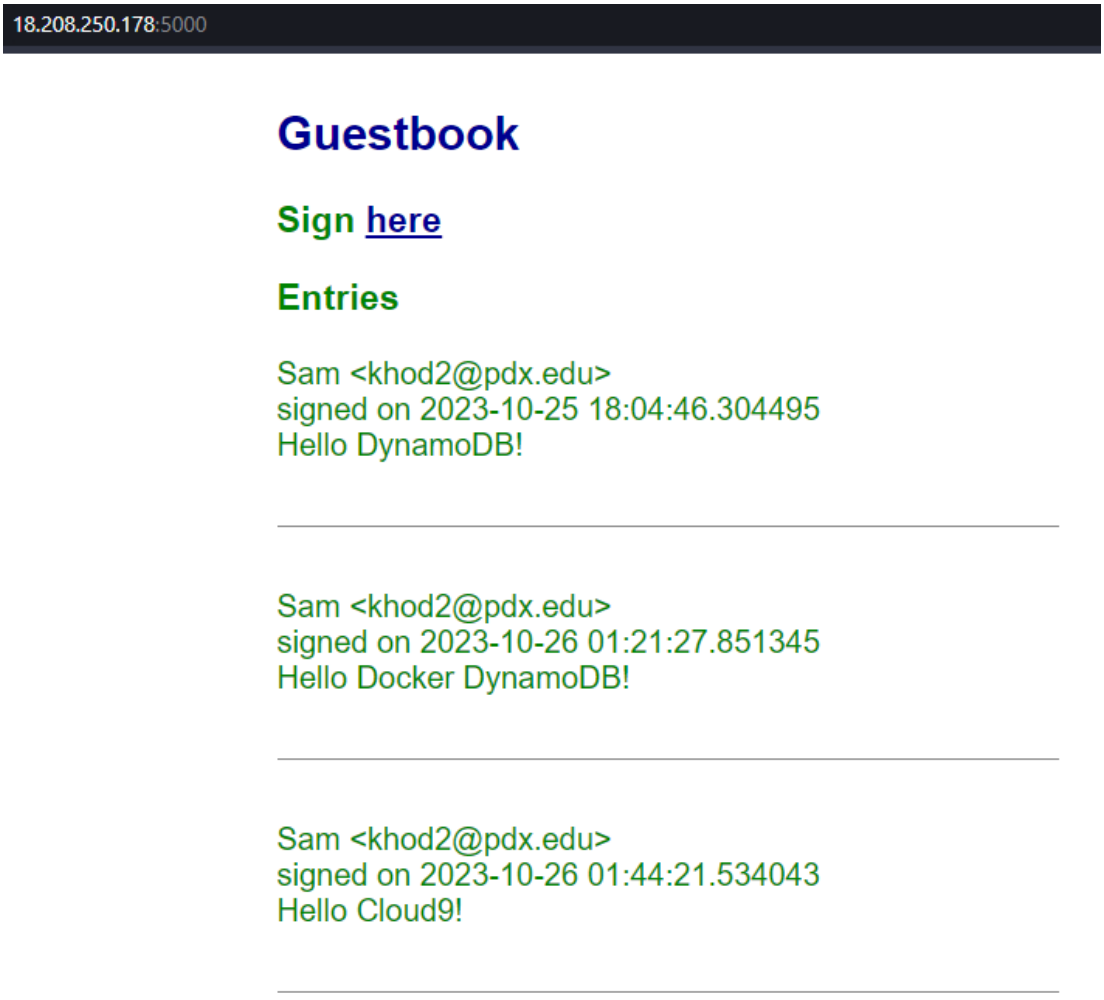
7. **Take a screenshot of the output for your lab notebook.**



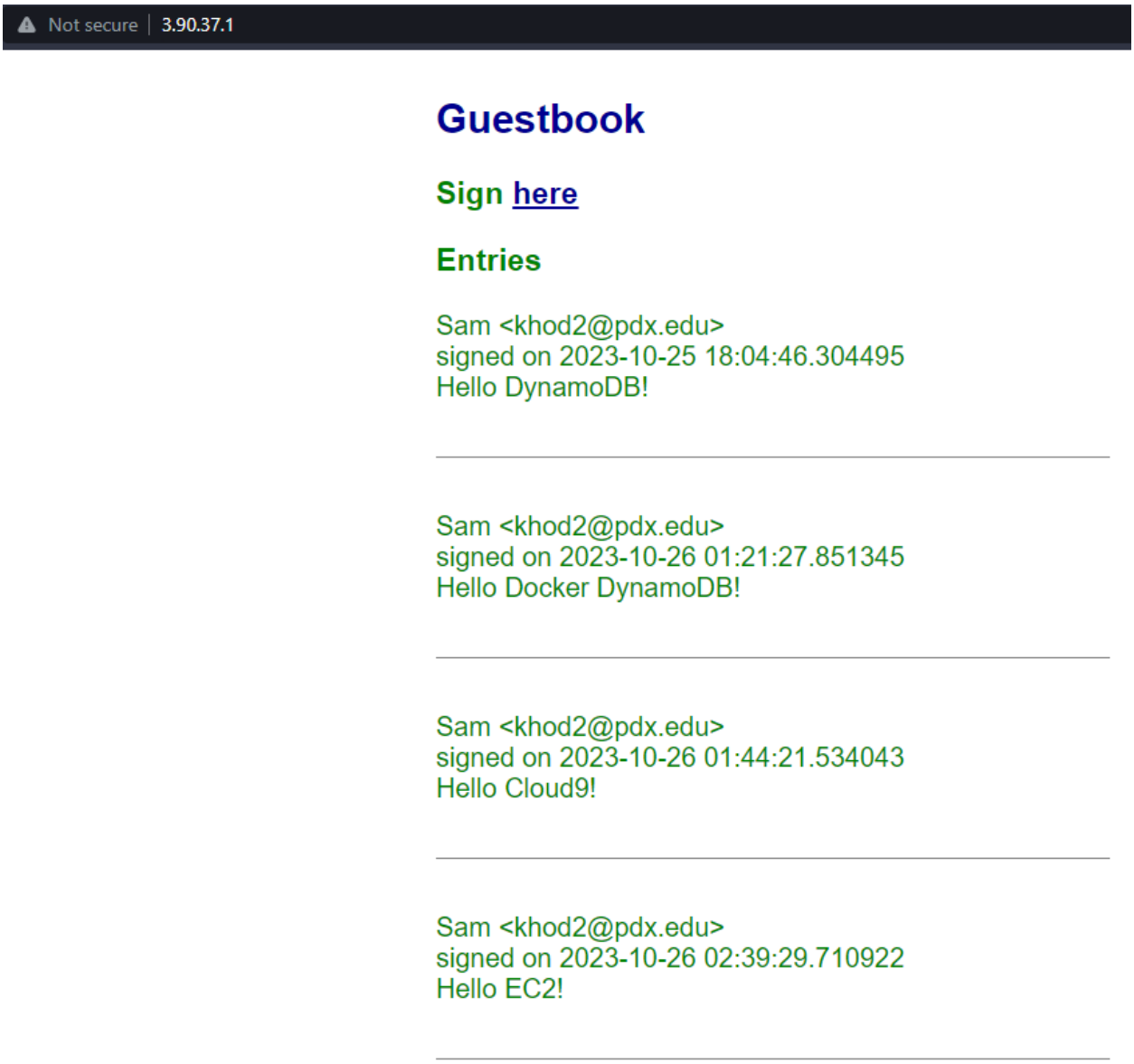
8. **Take a screenshot of the container image on DockerHub.**



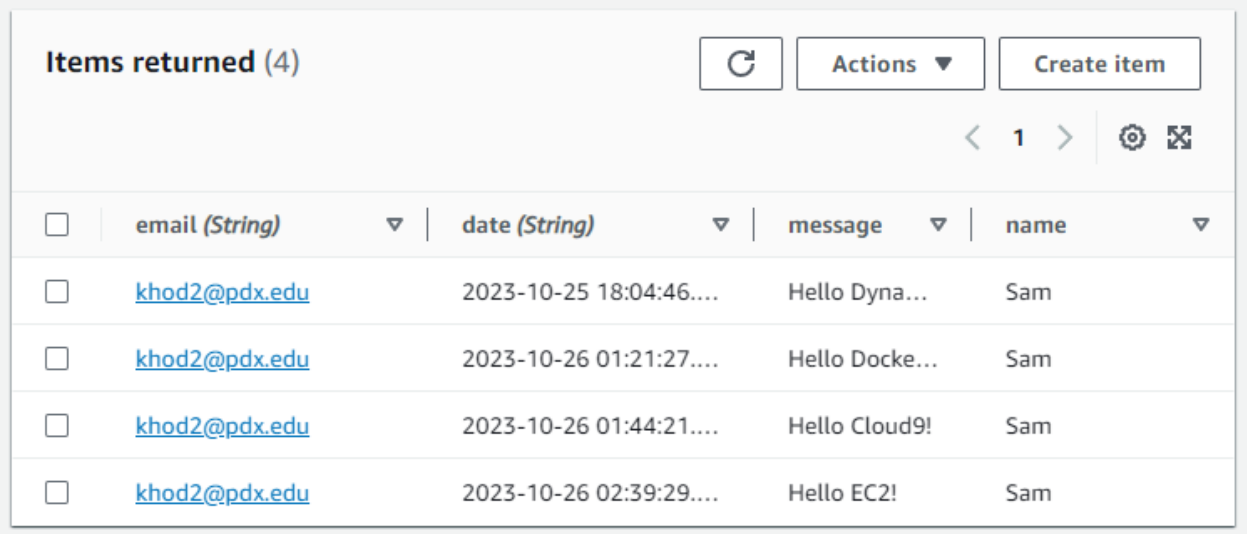
11. **Take a screenshot as before that shows your entry and the IP address in the URL bar.**



15. **Take a screenshot as before that shows your entry and the IP address in the URL bar.**



16. **Take a screenshot that shows all the guestbook entries that you added to the DynamoDB table including their timestamps.**



Items returned (4)

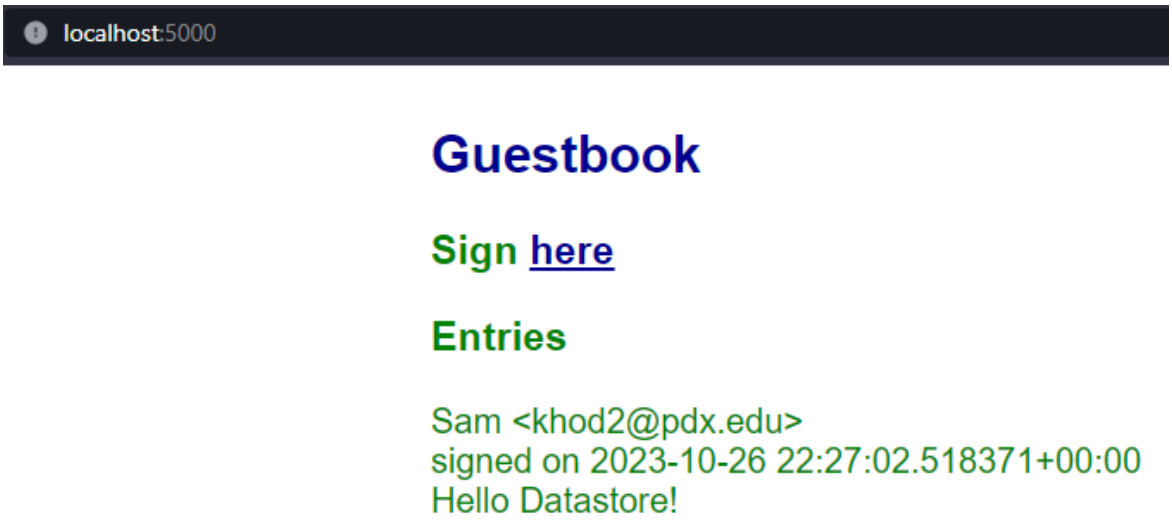
Actions | Create item

1

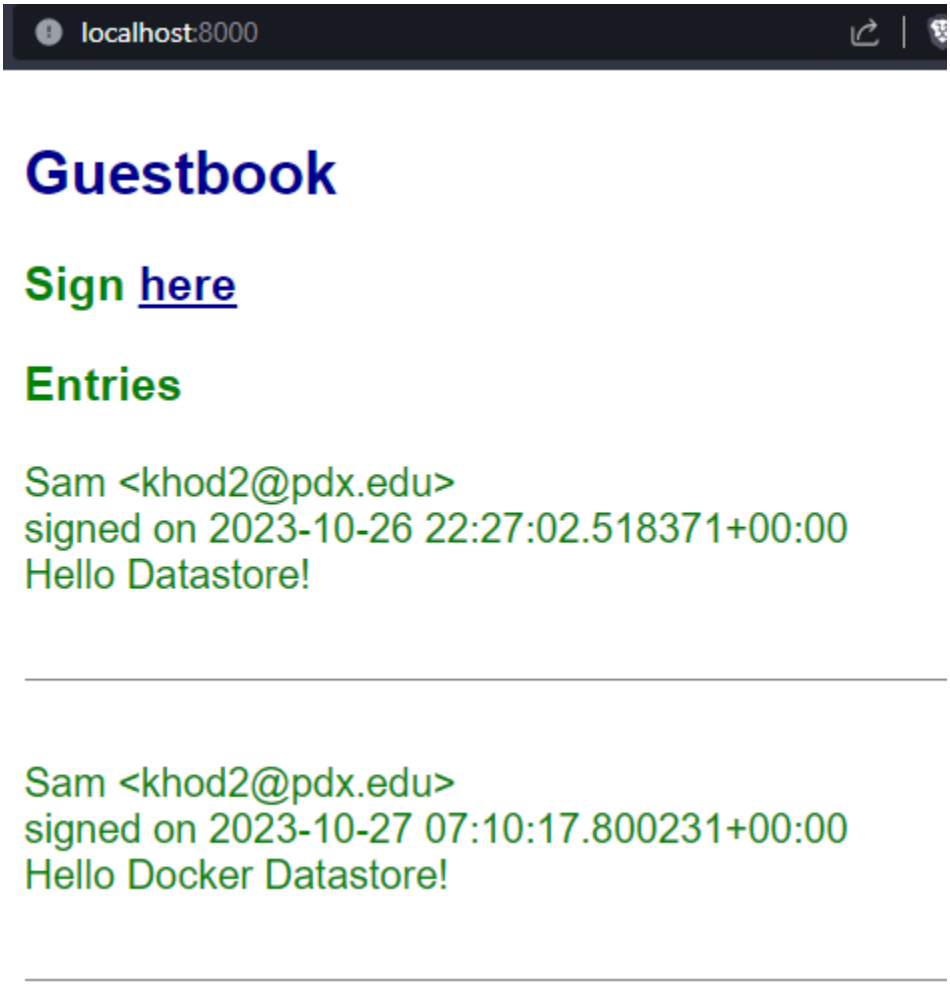
email *(String)*	date *(String)*	message	name
khod2@pdx.edu	2023-10-25 18:04:46....	Hello Dyna...	Sam
khod2@pdx.edu	2023-10-26 01:21:27....	Hello Docke...	Sam
khod2@pdx.edu	2023-10-26 01:44:21....	Hello Cloud9!	Sam
khod2@pdx.edu	2023-10-26 02:39:29....	Hello EC2!	Sam

5.2g

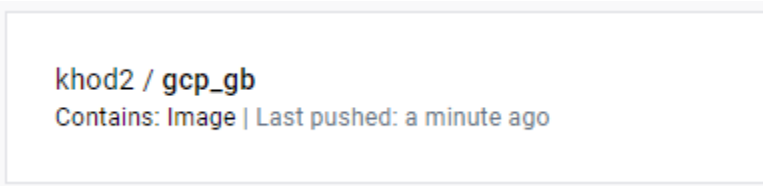
7. **Take a screenshot of the output for your lab notebook.**



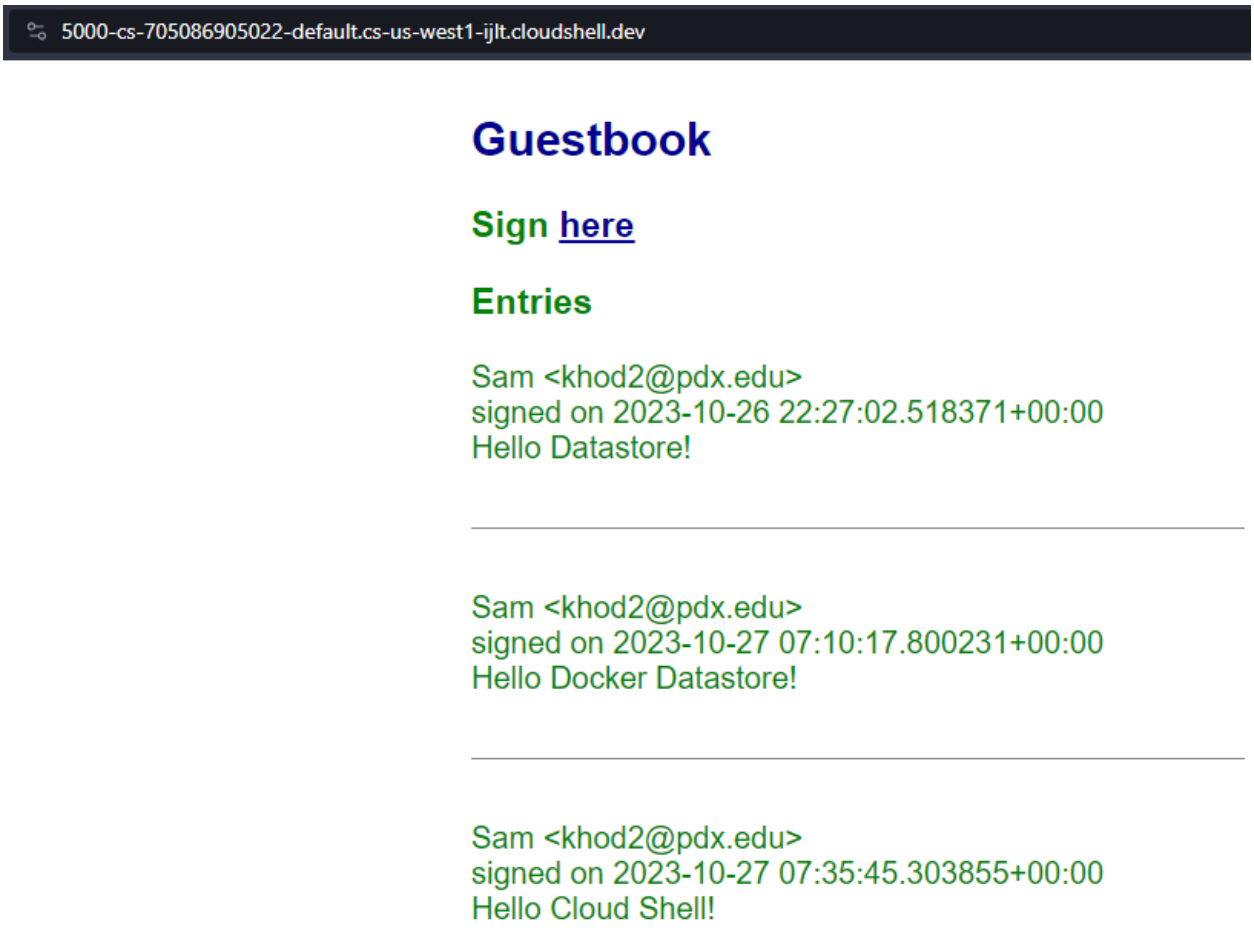
9. **Take a screenshot of the output for your lab notebook.**



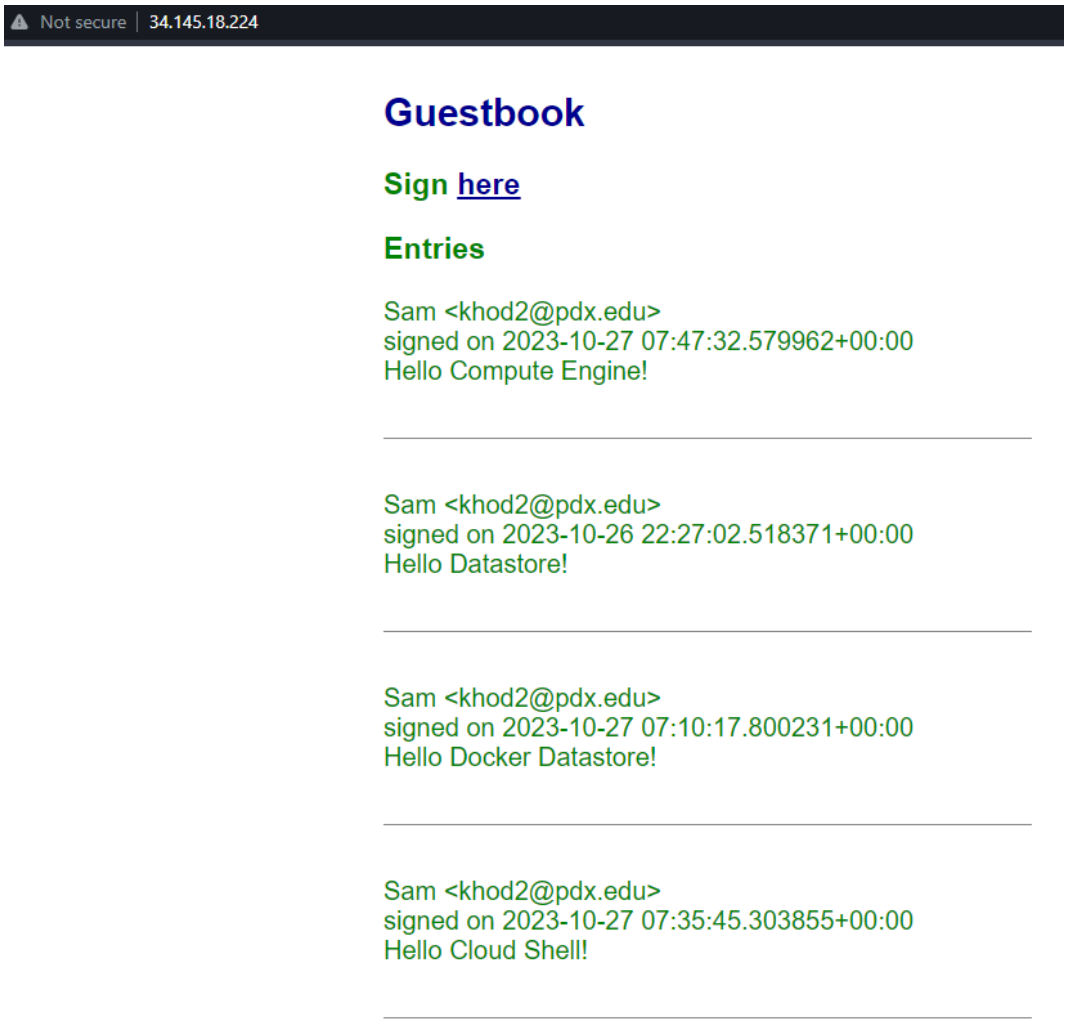
10. **Take a screenshot of the container image on DockerHub.**



12. **Take a screenshot as before that shows your entry and the URL bar.**



15. **Take a screenshot as before that shows your entry and the IP address in the URL bar.**



16. **Take a screenshot of all of the entries that have been added including their timestamps for your lab notebook.**

Query results

Name/ID	date	email	message	name
id=5632499082330112	October 27, 2023 at 12:47:32.579 AM UTC-7	khod2@pdx.edu	Hello Compute Engine!	Sam
id=5634161670881280	October 26, 2023 at 3:27:02.518 PM UTC-7	khod2@pdx.edu	Hello Datastore!	Sam
id=5644004762845184	October 27, 2023 at 12:10:17.800 AM UTC-7	khod2@pdx.edu	Hello Docker Datastore!	Sam
id=5710353417633792	October 27, 2023 at 12:35:45.303 AM UTC-7	khod2@pdx.edu	Hello Cloud Shell!	Sam