

- What role is attached to the Compute Engine default service account?

Editor

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

I assume it would be because the role is an editor role.

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

The default setting is read-only access to Storage and Service Management, write access to Cloud Monitoring and Cloud Logging, and 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 because it grants on one type of access to Storage and Service Management and only one type of access to Cloud Monitoring and Cloud Logging

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

the Storage option you see after selecting "Set access for each API"

- What **time** did the latest earthquake happen?

2025-11-03T00:03:39.760Z

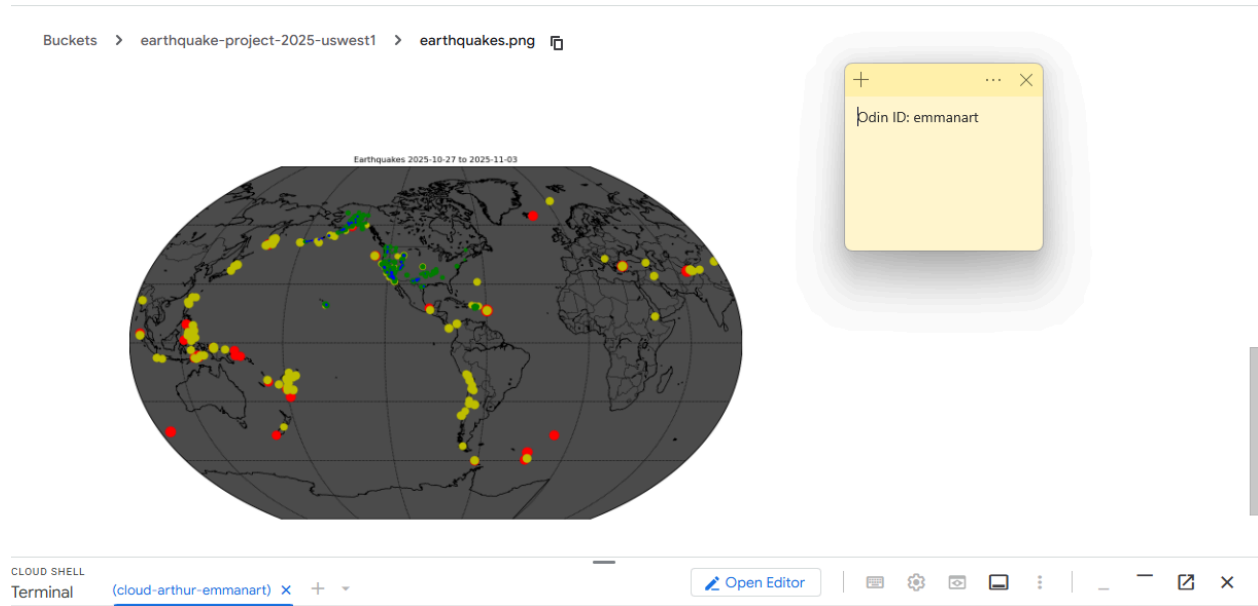
- What was the magnitude (**mag**)?

0.77

- Where was the **place** it happened?

3 km N of Big Bear City, CA

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



- What is the exact error message that is returned?

WARNING: Some requests did not succeed.

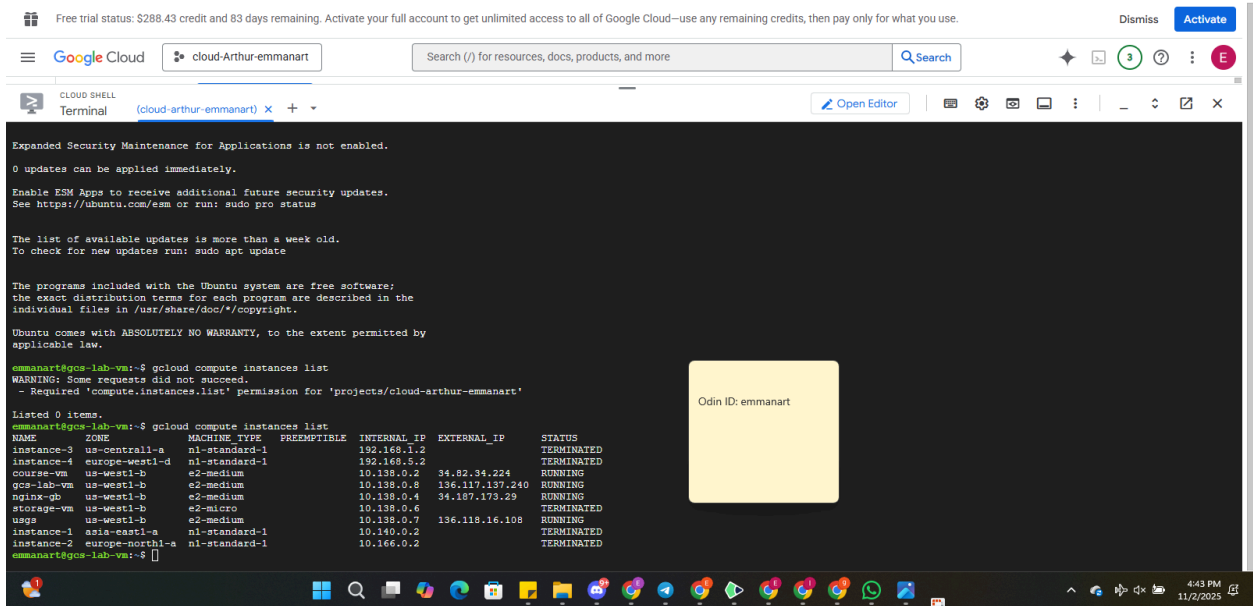
- Required 'compute.instances.list' permission for 'projects/cloud-arthur-emmanart'

Listed 0 items.

- 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 resources?

Compute Viewer role

- Take a screenshot of the output for your notebook.



- What is the exact error message that is returned?

Copying file://moonquakes.png to gs://earthquake-project-2025-uswest1/moonquakes.png

“ERROR: [gcs-lab@cloud-arthur-emmanart.iam.gserviceaccount.com] does not have permission to access b instance [earthquake-project-2025-uswest1] (or it may not exist):
gcs-lab@cloud-arthur-emmanart.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). This command is authenticated as gcs-lab@cloud-arthur-emmanart.iam.gserviceaccount.com which is the active account specified by the [core/account] property.

Completed files 0/1 | 0B/303.5kiB

- 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?

Storage Object Creator

- Take a screenshot of the output for your notebook.

Free trial status: \$288.43 credit and 83 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use. Dismiss Activate

Google Cloud cloud-arthur-emmanart Search (/) for resources, docs, products, and more Q Search

CLOUD SHELL Terminal (cloud-arthur-emmanart) X + Open Editor

```
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

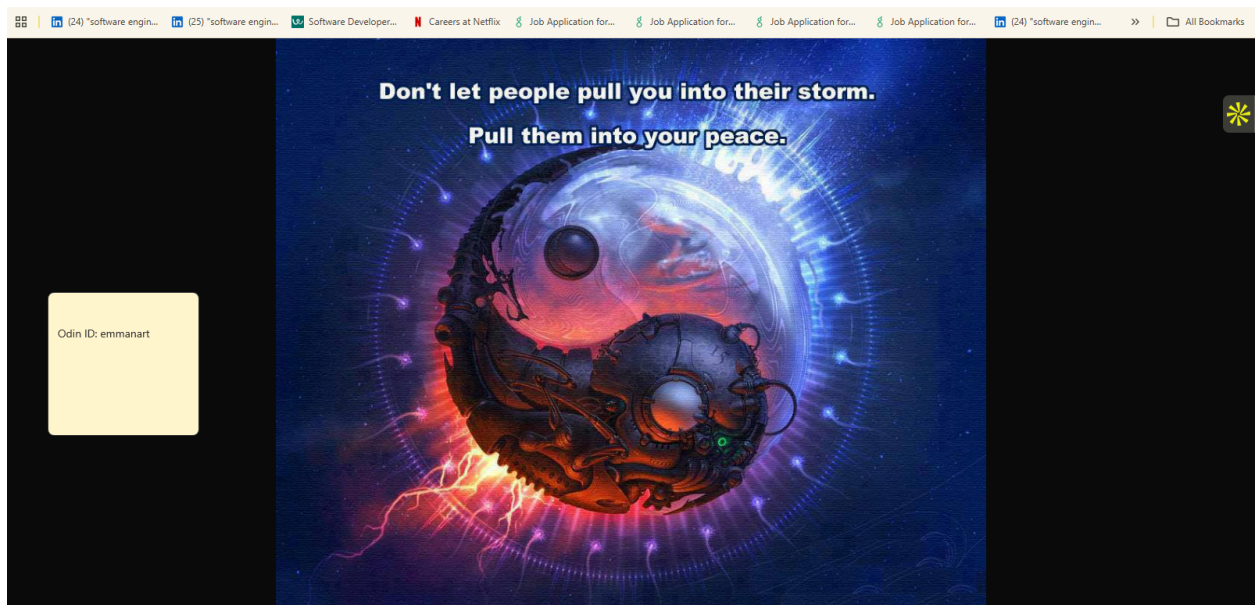
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

emmanart@gcs-lab-vm:~$ gcloud compute instances list
WARNING: Some requests did not succeed.
- Required 'compute.instances.list' permission for 'projects/cloud-arthur-emmanart'

Listed 0 items.
emmanart@gcs-lab-vm:~$ gcloud compute instances list
NAME          ZONE          MACHINE_TYPE  PREEMPTIBLE  INTERNAL_IP  EXTERNAL_IP  STATUS
instance-3    us-central1-a  n1-standard-1 192.168.1.2   192.168.5.2   TERMINATED
instance-4    europe-west1-d n1-standard-1 192.168.5.2   192.168.5.2   TERMINATED
course-vm     us-west1-b    e2-medium     10.138.0.2    34.82.34.224   RUNNING
gcs-lab-vm    us-west1-b    e2-medium     10.138.0.8    136.117.137.240 RUNNING
nginx-gb      us-west1-b    e2-medium     10.138.0.4    34.187.179.29  RUNNING
storage-vm    us-west1-b    e2-micro      10.138.0.6    10.138.0.6     TERMINATED
usgs          us-west1-b    e2-medium     10.138.0.7    136.118.16.108 RUNNING
instance-1    asia-east1-a  n1-standard-1 10.140.0.2    10.140.0.2     TERMINATED
instance-2    europe-north1-a n1-standard-1 10.166.0.2    10.166.0.2     TERMINATED
emmanart@gcs-lab-vm:~$ gcloud storage cp gs://earthquake-project-2025-uswest1/earthquakes.png .
Copying gs://earthquake-project-2025-uswest1/earthquakes.png to file:///earthquakes.png
Completed files 1/1 | 303.5KiB/303.5KiB
emmanart@gcs-lab-vm:~$ cp earthquakes.png moonquakes.png
emmanart@gcs-lab-vm:~$ gcloud storage cp moonquakes.png gs://earthquake-project-2025-uswest1/
Copying file://moonquakes.png to gs://earthquake-project-2025-uswest1/moonquakes.png
ERROR: [gcs-lab@cloud-arthur-emmanart.iam.gserviceaccount.com] does not have permission to access b instance (
a.gserviceaccount.com does not have storage.objects.create access to the Google Cloud Storage object. Permission
denied on resource (or it may not exist): gcs-lab@cloud-arthur-emmanart.iam.gserviceaccount.com which is the active account specified by th
Completed files 0/1 | 0B/303.5KiB
emmanart@gcs-lab-vm:~$ ^C
emmanart@gcs-lab-vm:~$ gcloud storage cp moonquakes.png gs://earthquake-project-2025-uswest1/
Copying file://moonquakes.png to gs://earthquake-project-2025-uswest1/moonquakes.png
Completed files 1/1 | 303.5KiB/303.5KiB
emmanart@gcs-lab-vm:~$
```

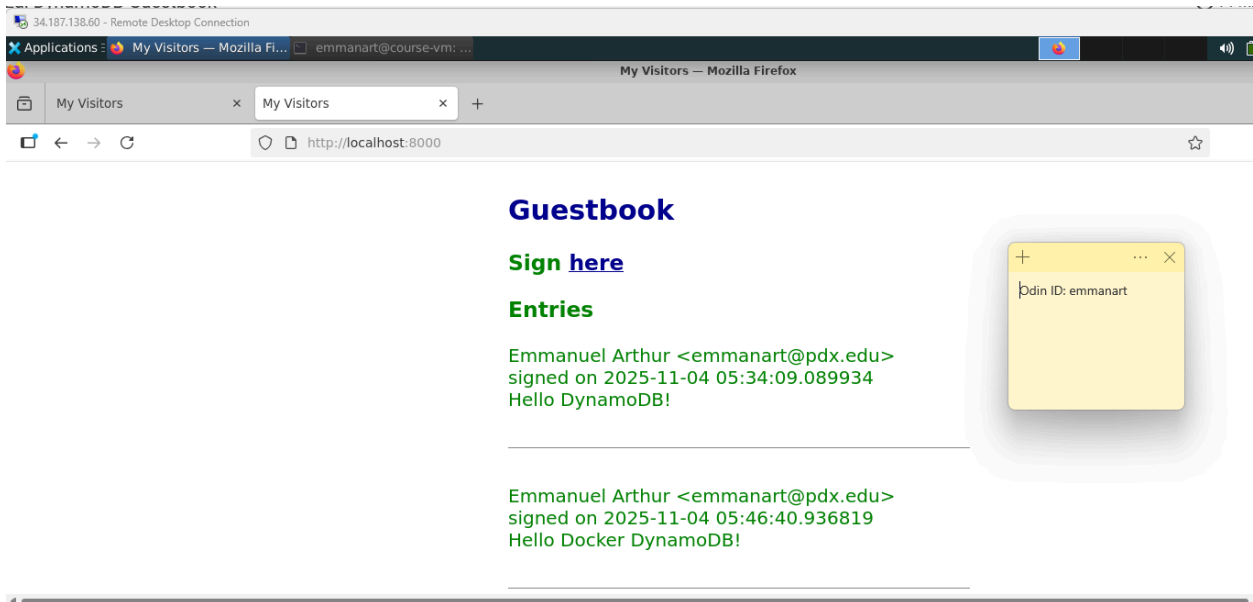
Odin ID: emmanart

- Take a screenshot the shows the entire URL and the image that has been retrieved:

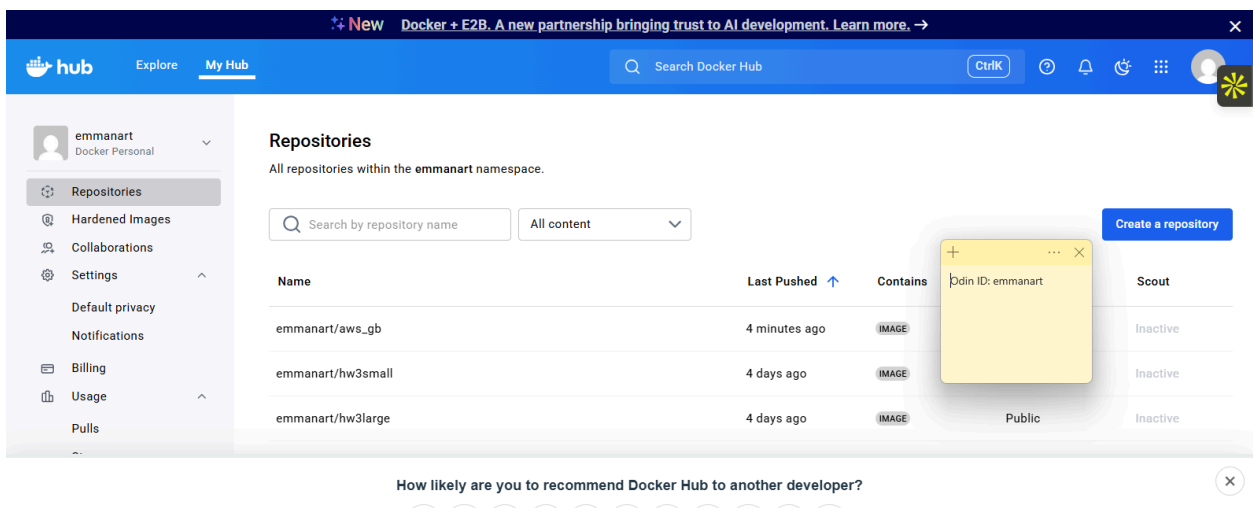


Lab 5.2a

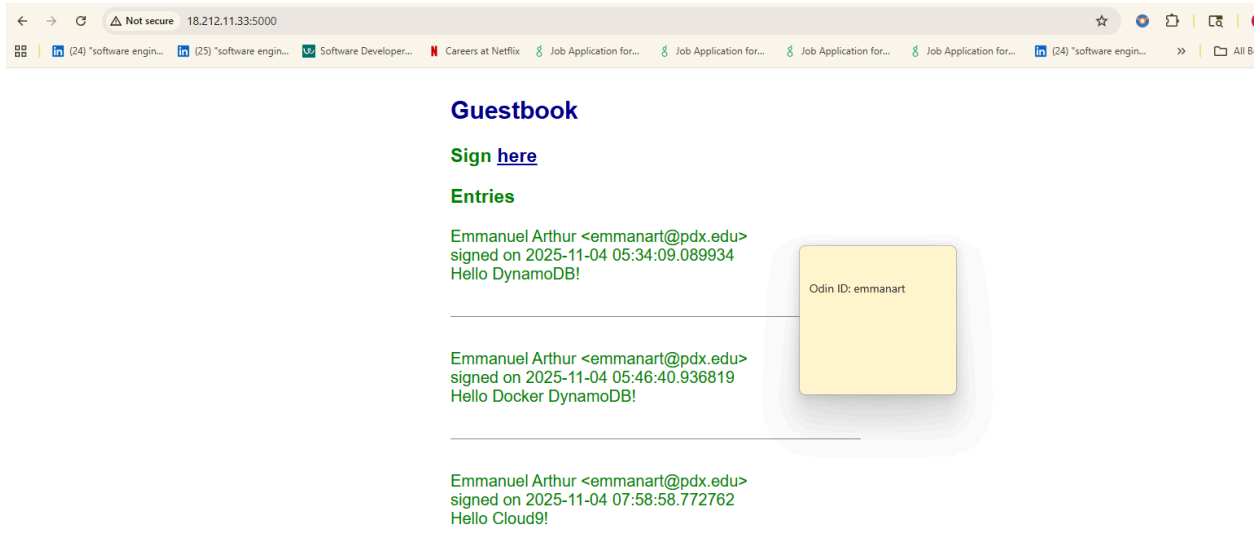
- Take a screenshot of the output for your lab notebook



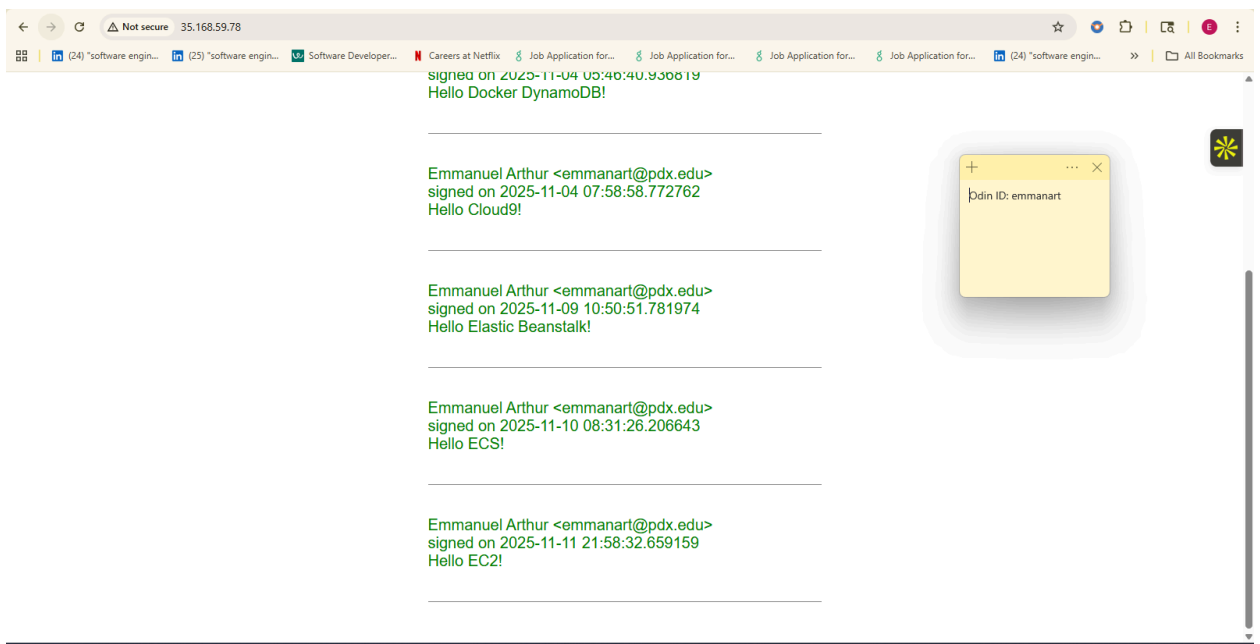
- Take a screenshot of the container image on DockerHub.



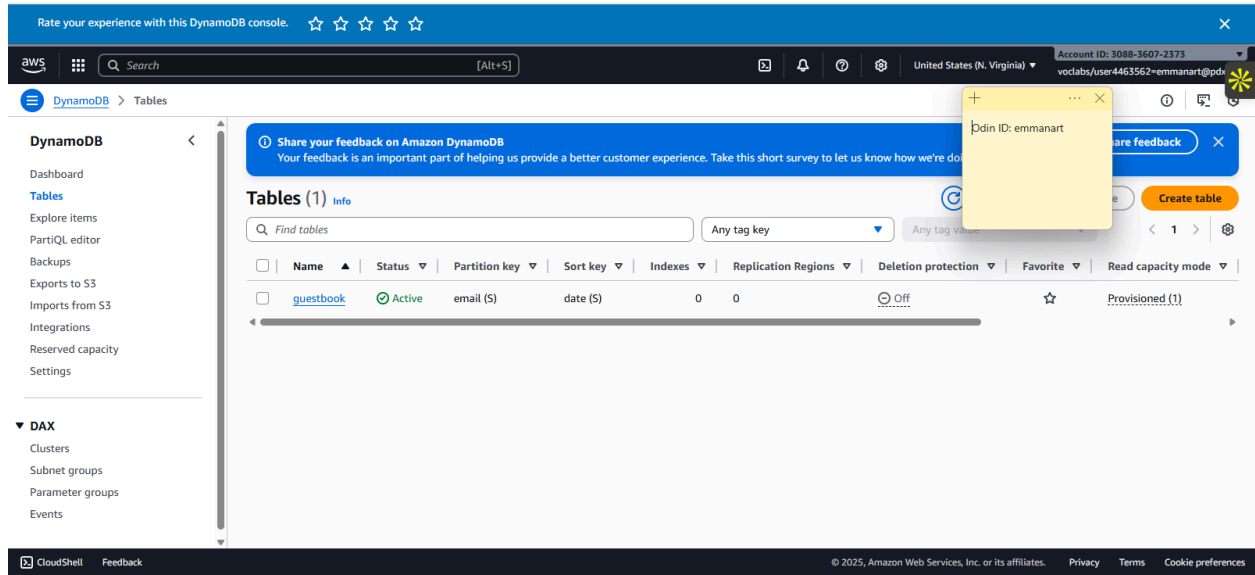
- Take a screenshot as before that shows your entry and the IP address in the URL bar.



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

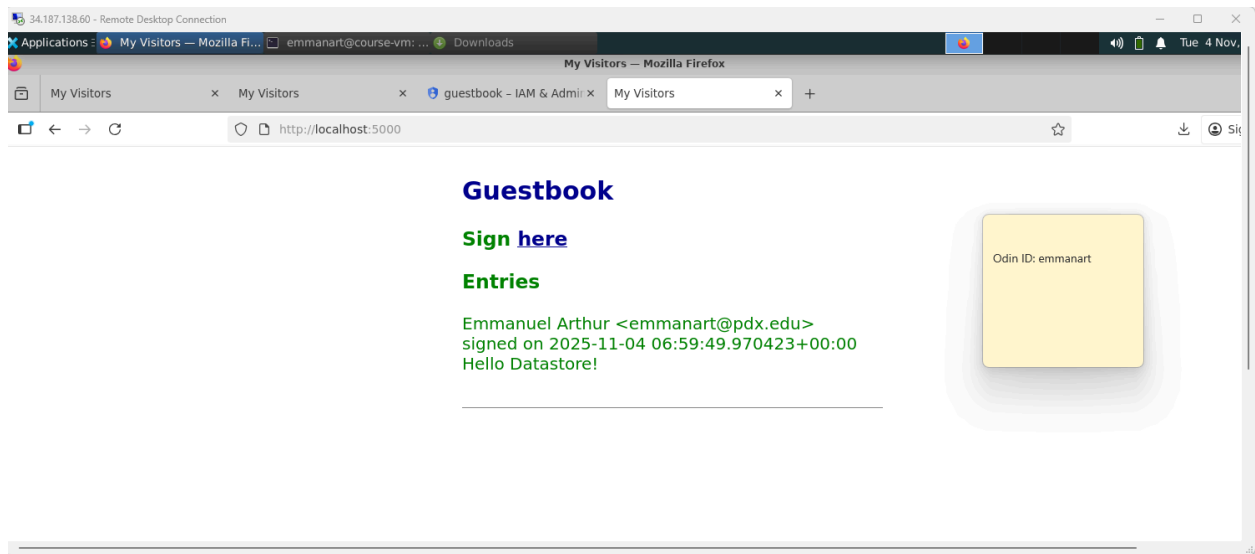


- Take a screenshot that shows all of the guestbook entries that you added to the DynamoDB table including their timestamps.

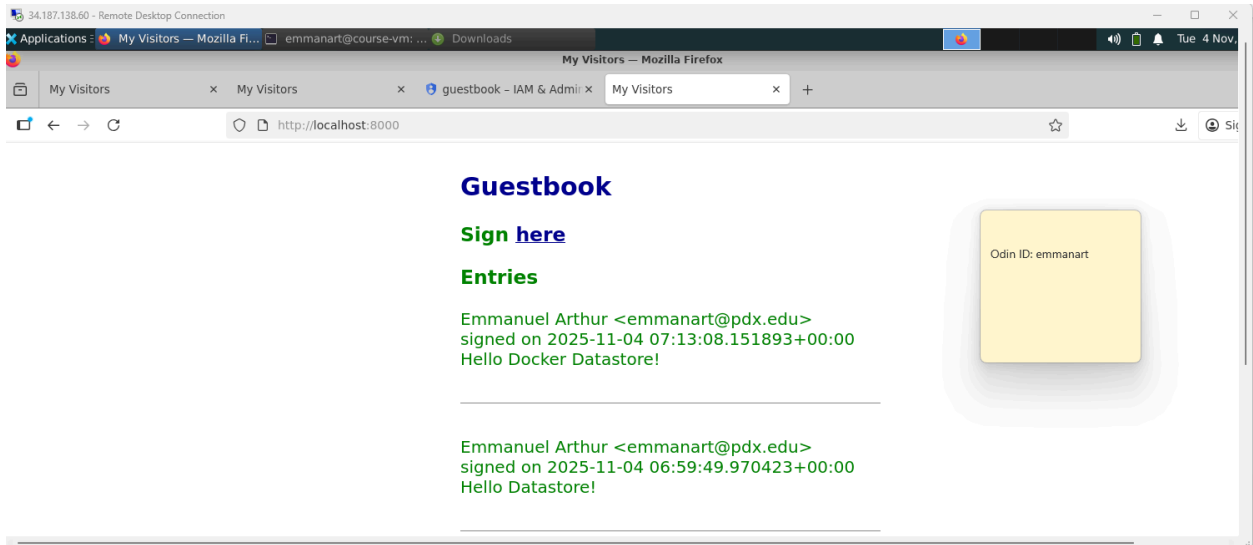


Lab 5.2g

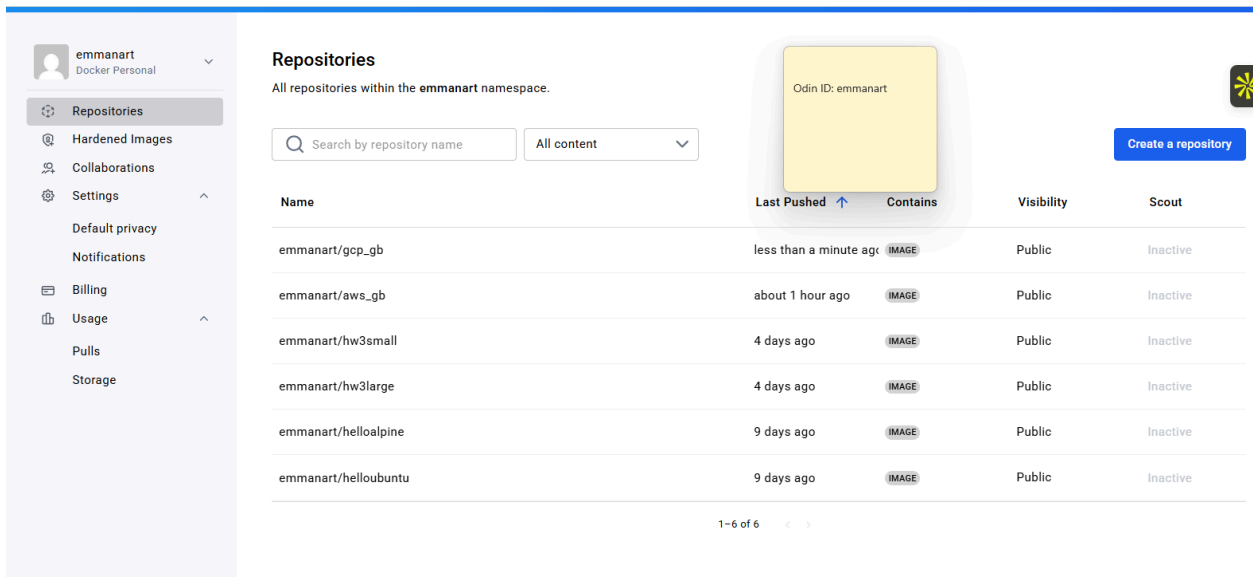
- Take a screenshot of the output for your lab notebook.



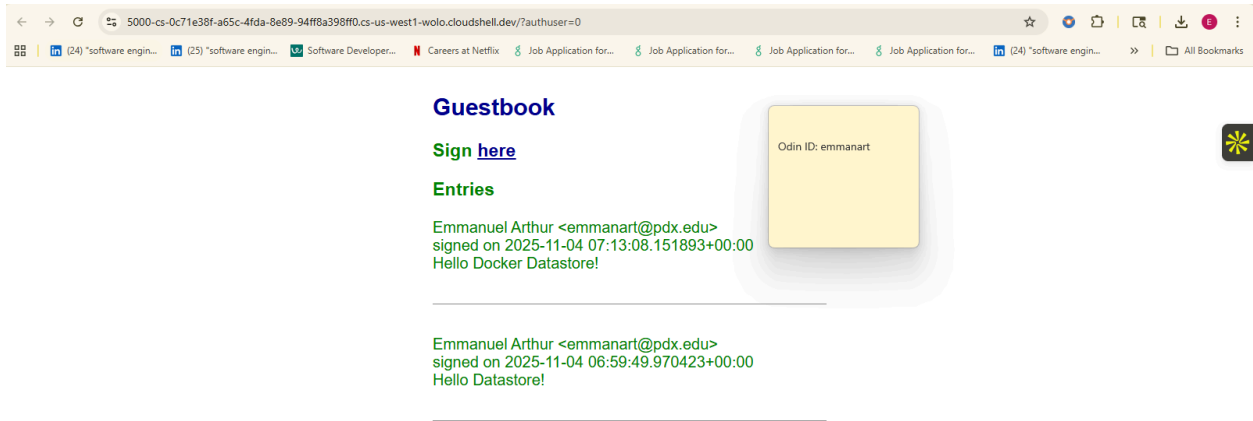
- Take a screenshot of the output for your lab notebook.



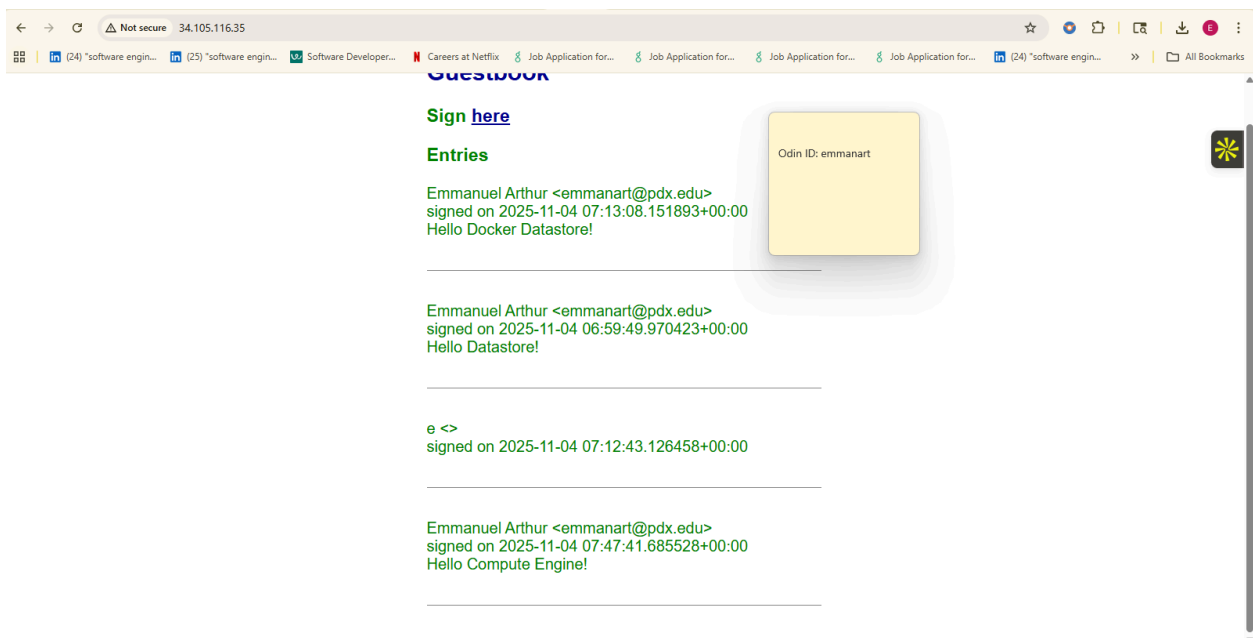
- Take a screenshot of the container image on DockerHub.



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



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



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

[Run](#) [Clear](#) [Documentation](#)

Query scope

Collection

Collection

/Review

Limit *

100

Add to query

Odin ID: emmanart

Query results

Document ID	date	email	message	name
__id5081054809423872__	November 3, 2025 at 11:13:08 PM UTC-8	"emmanart@pdx.edu"	"Hello Docker Datastore!"	"Emmanuel Arthur"
__id5634161670881280__	November 3, 2025 at 10:59:49 PM UTC-8	"emmanart@pdx.edu"	"Hello Datastore!"	"Emmanuel Arthur"
__id5644004762845184__	November 3, 2025 at 11:12:43 PM UTC-8	"	"	"e"
__id6206954716266496__	November 3, 2025 at 11:47:41 PM UTC-8	"emmanart@pdx.edu"	"Hello Compute Engine!"	"Emmanuel Arthur"