

Lab Notebook 5 — marvleon

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5.1 Storage, IAM

5.1.2

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)?

Yes

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

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)?

No

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

Read Only, Write Only, Read Write, FULL

5.1.4

What time did the latest earthquake happen?

02:49:24

What was the magnitude (mag)?

1.3

Where was the place it happened?

0 km N of The Geysers, CA

5.1.5

cloud-Leon-marvleon

storage

Search

Object details

Buckets > marvleonlab5bucket > earthquakes.png

Overview

| | |
|-------------------|---|
| Type | image/png |
| Size | 322.2 KB |
| Created | Oct 30, 2023, 8:04:51 PM |
| Last modified | Oct 30, 2023, 8:04:51 PM |
| Storage class | Standard |
| Custom time | — |
| Public URL | Not applicable |
| Authenticated URL | https://storage.cloud.google.com/marvleonlab5bucket/earthquakes.png |
| gsutil URI | gs://marvleonlab5bucket/earthquakes.png |

Permissions

| | |
|---------------|------------|
| Public access | Not public |
|---------------|------------|

Protection

| | |
|------------------|----------------|
| Version history | — |
| Retention policy | None |
| Hold status | None |
| Encryption type | Google-managed |

Earthquakes 2023-10-24 to 2023-10-31

5.1.9

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-leon-marvleon'

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?

Compute Viewer Role

```
marvleon@gcs-lab-vm:~$ gcloud compute instances list
NAME                                ZONE                MACHINE_TYPE  PREEMPTIBLE  INTERNAL_IP  EXTERNAL_IP    STATUS
vm-europe-west1-d                  europe-west1-d      e2-medium    false        10.132.0.2   35.233.198.138 TERMINATED
cos-gb                             us-west1-a          e2-micro     false        10.138.0.7   34.83.55.45    TERMINATED
docker-gb                          us-west1-a          e2-micro     false        10.138.0.6   34.83.55.45    TERMINATED
gcs-lab-vm                         us-west1-a          e2-medium    false        10.138.0.9   35.233.198.138 RUNNING
nginx-gb                           us-west1-a          e2-medium    false        10.138.0.5   34.83.55.45    TERMINATED
usgs                                us-west1-a          e2-medium    false        10.138.0.8   34.83.55.45    RUNNING
course-vm                          us-west1-b          e2-medium    false        10.138.0.2   34.83.55.45    TERMINATED
vm-us-west1-b                     us-west1-b          e2-medium    false        10.138.0.3   34.83.55.45    TERMINATED
vm-us-east1-b                      us-east1-b          e2-medium    false        10.142.0.2   34.83.55.45    TERMINATED
vm-australia-southeast1-b         australia-southeast1-b e2-medium    false        10.152.0.2   34.83.55.45    TERMINATED
marvleon@gcs-lab-vm:~$
```

5.1.10

What is the exact error message that is returned?

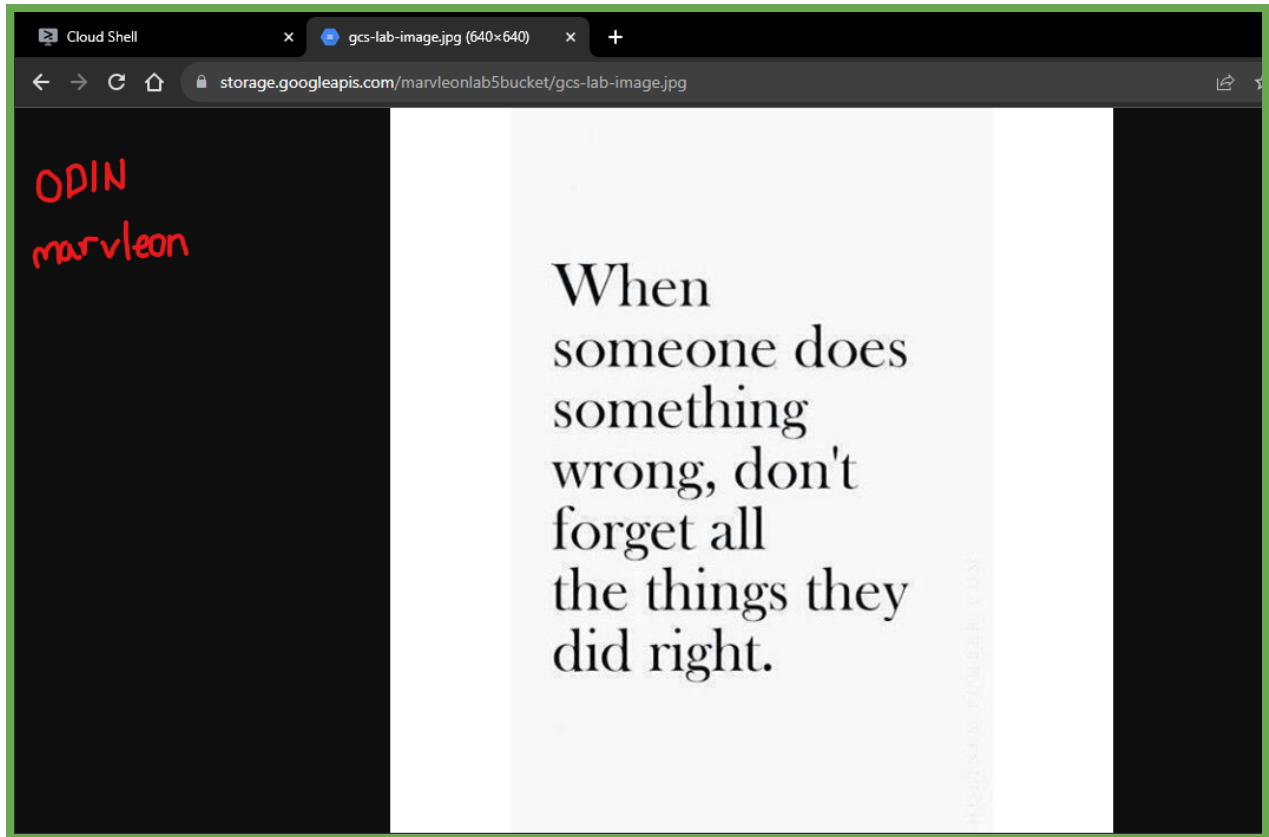
AccessDeniedException: 403 gcs-lab@cloud-leon-marvleon.iam.gserviceaccount.com does not have storage.objects.create access to the Google Cloud Storage object. Permission 'storage.objects.create' denied on resource (or it may not exist).

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?

Storage Object Creator

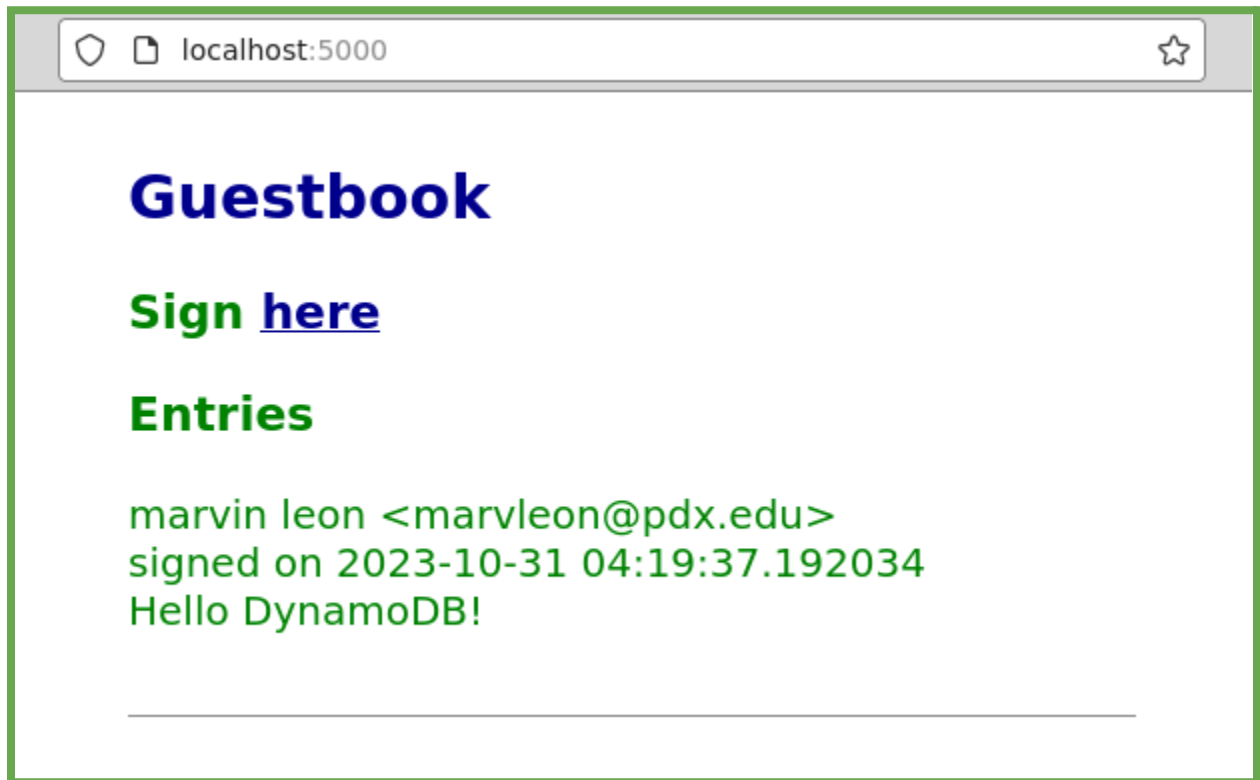
```
marvleon@gcs-lab-vm:~$ gsutil cp moonquakes.png gs://marvleonlab5bucket/
Copying file:///moonquakes.png [Content-Type=image/png]...
/ [1 files][322.2 KiB/322.2 KiB]
Operation completed over 1 objects/322.2 KiB.
marvleon@gcs-lab-vm:~$
```

5.1.13

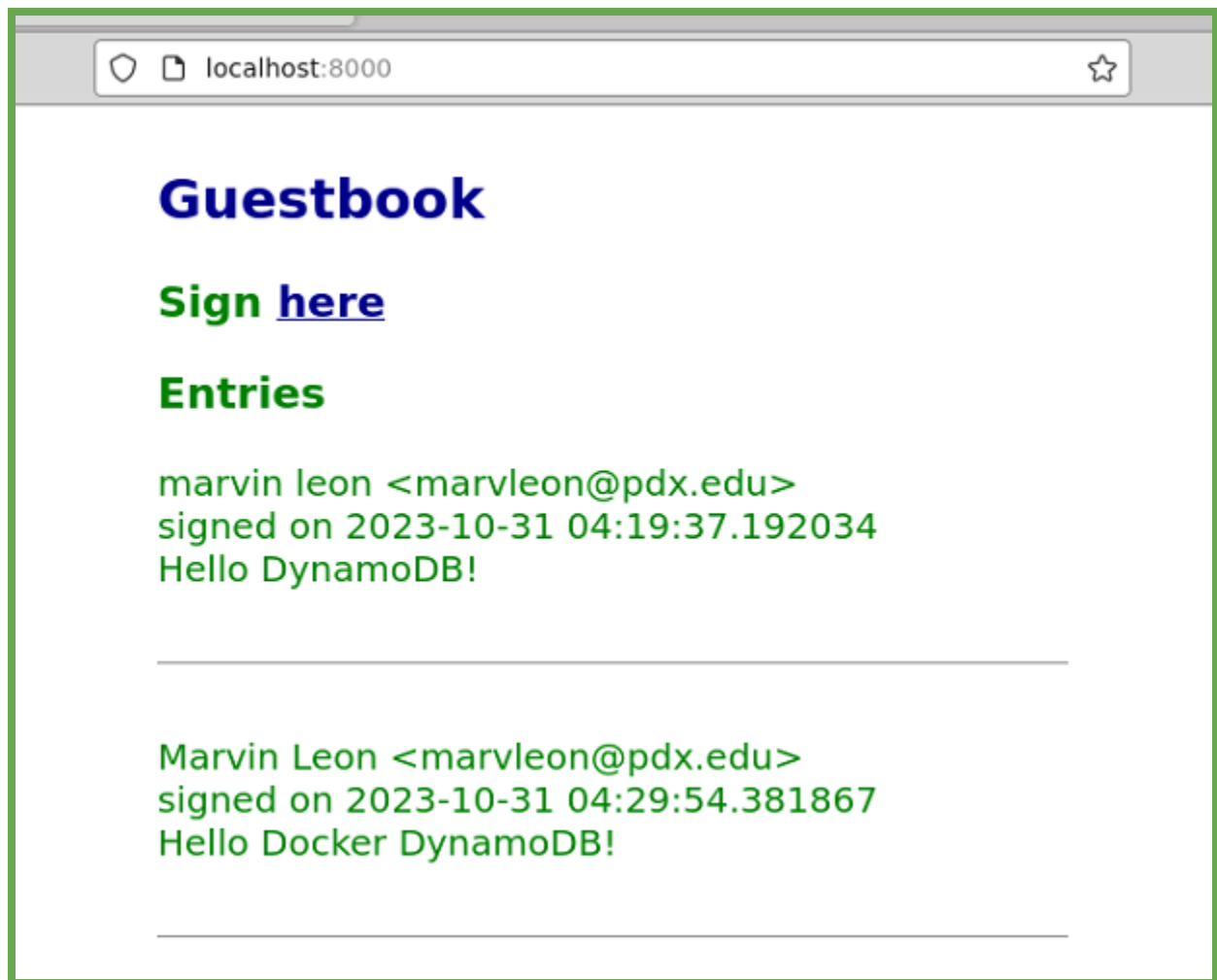


5.2 DynamoDB Guestbook

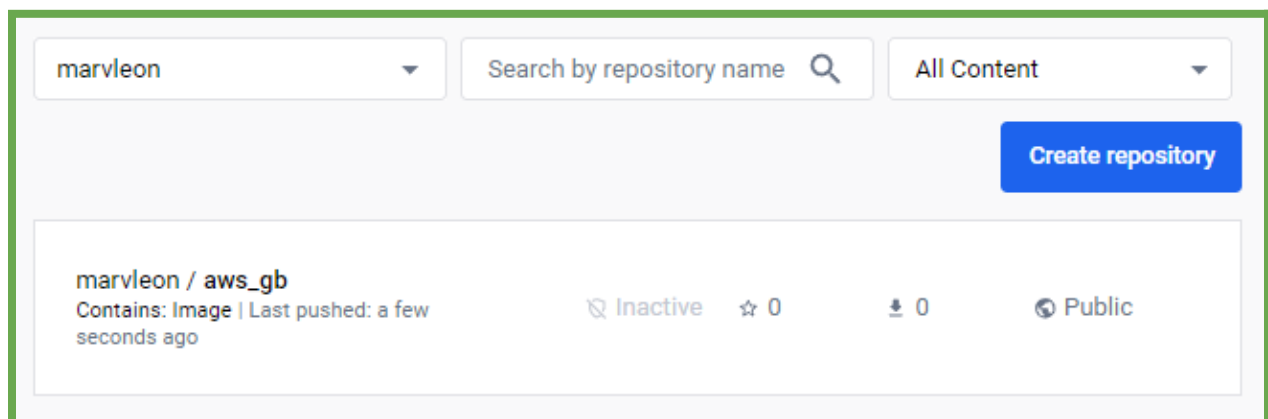
5.2.5

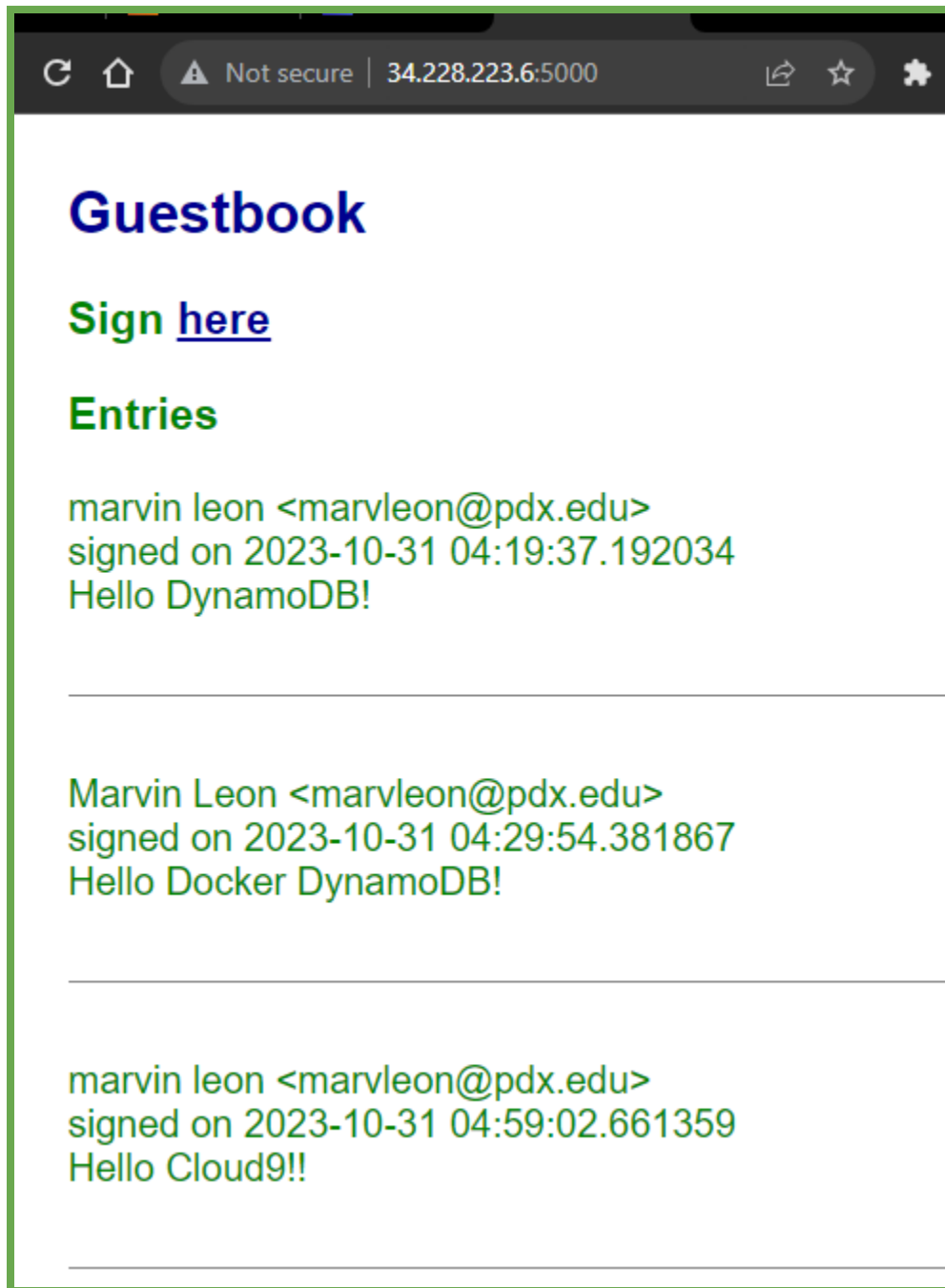


5.2.7

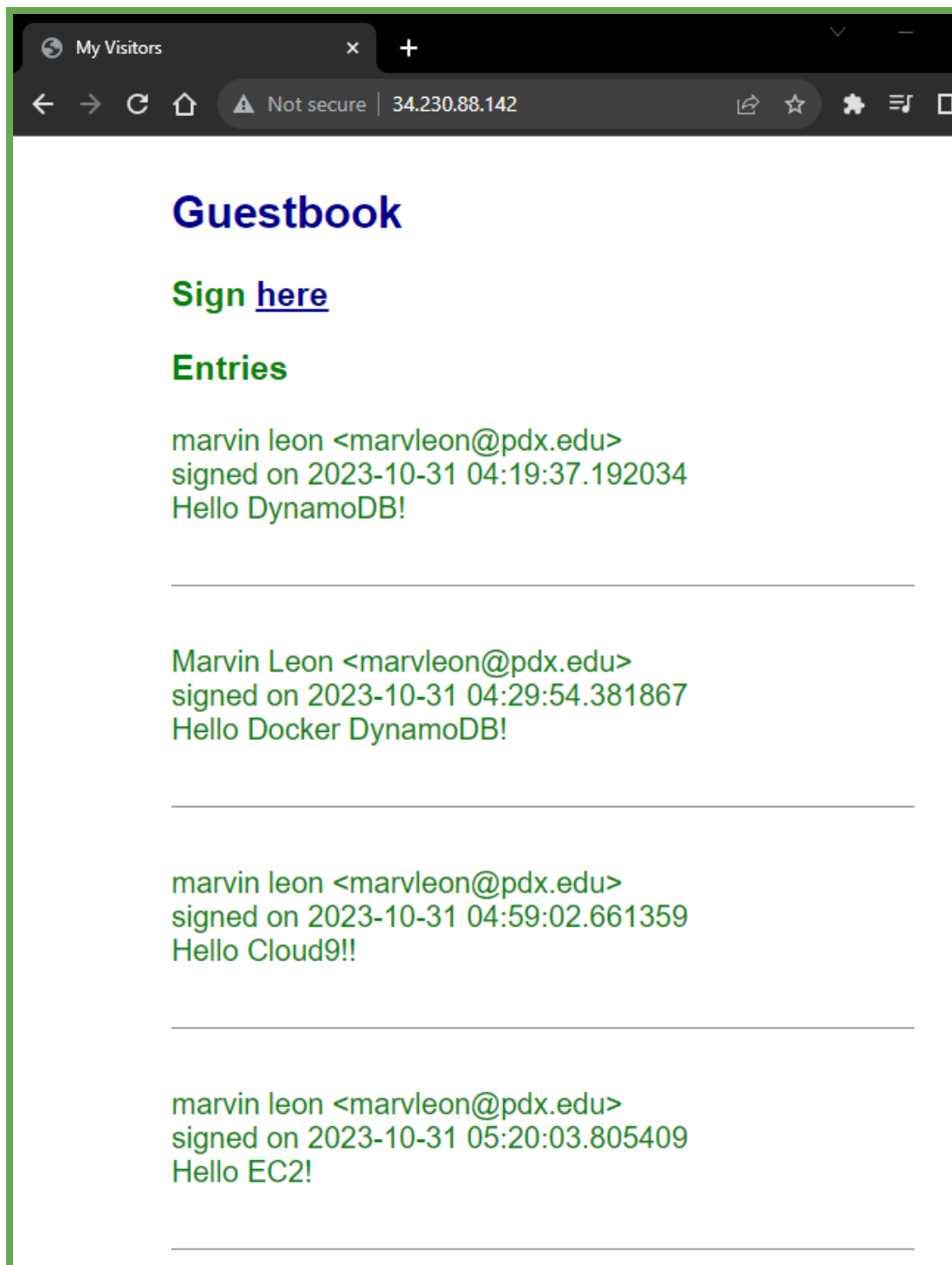


5.2.8





5.2.15

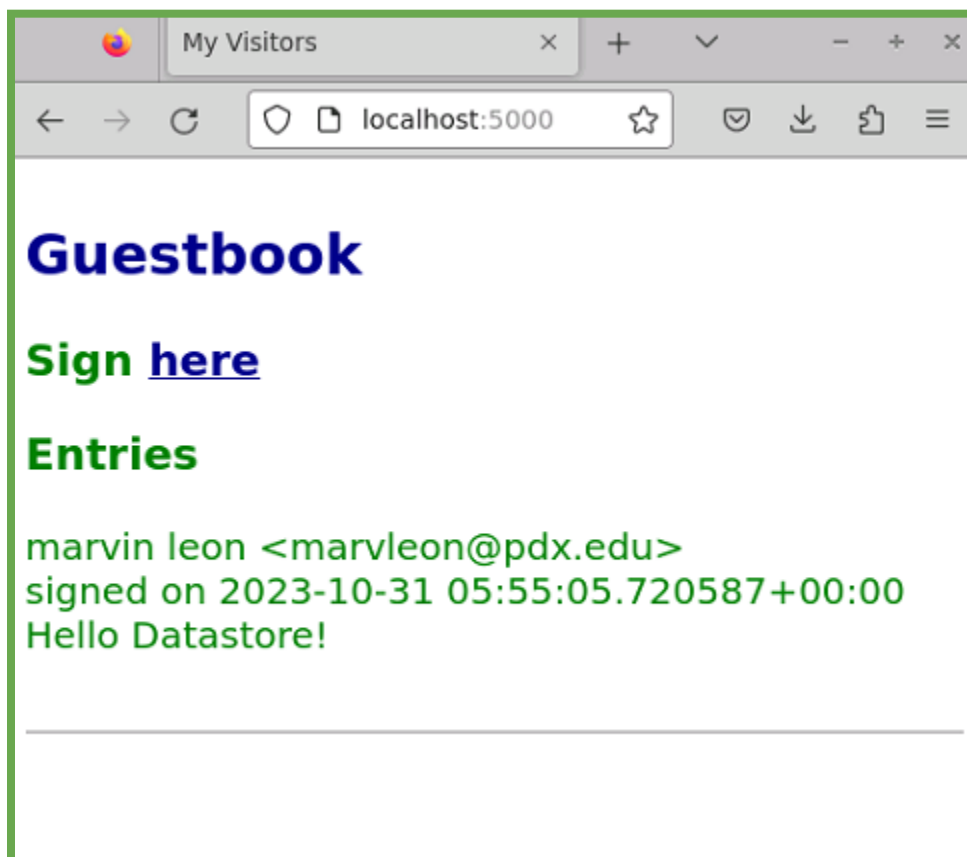


5.2.16

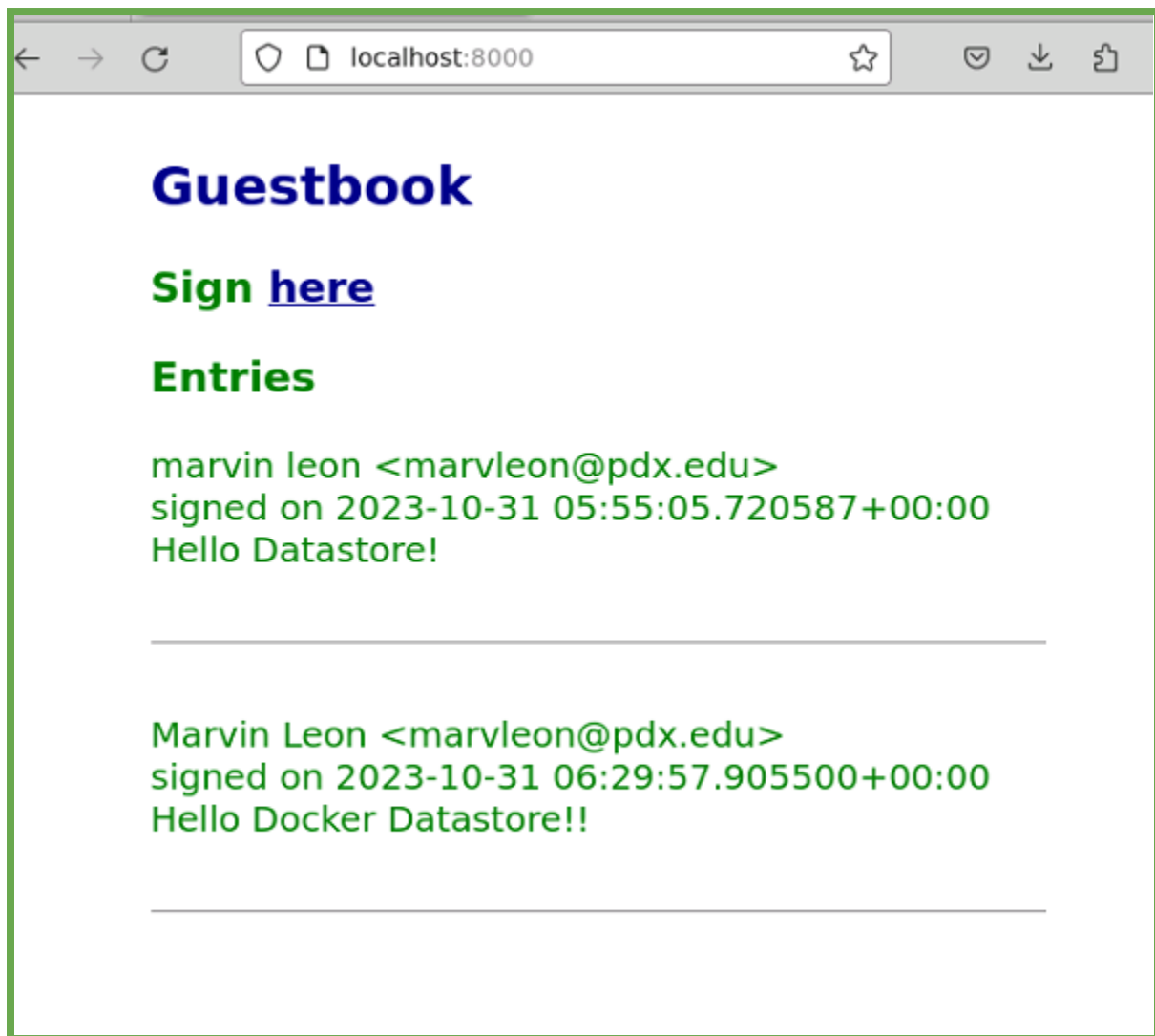
| <input type="checkbox"/> | email (String) ▾ | date (String) ▾ | message ▾ | name ▾ |
|--------------------------|--|-------------------------|----------------|-------------|
| <input type="checkbox"/> | marvleon@pdx.edu | 2023-10-31 04:19:37.... | Hello Dyna... | marvin leon |
| <input type="checkbox"/> | marvleon@pdx.edu | 2023-10-31 04:29:54.... | Hello Docke... | Marvin Leon |
| <input type="checkbox"/> | marvleon@pdx.edu | 2023-10-31 04:59:02.... | Hello Cloud9!! | marvin leon |
| <input type="checkbox"/> | marvleon@pdx.edu | 2023-10-31 05:20:03.... | Hello EC2! | marvin leon |

5.2g Cloud Datastore Guestbook

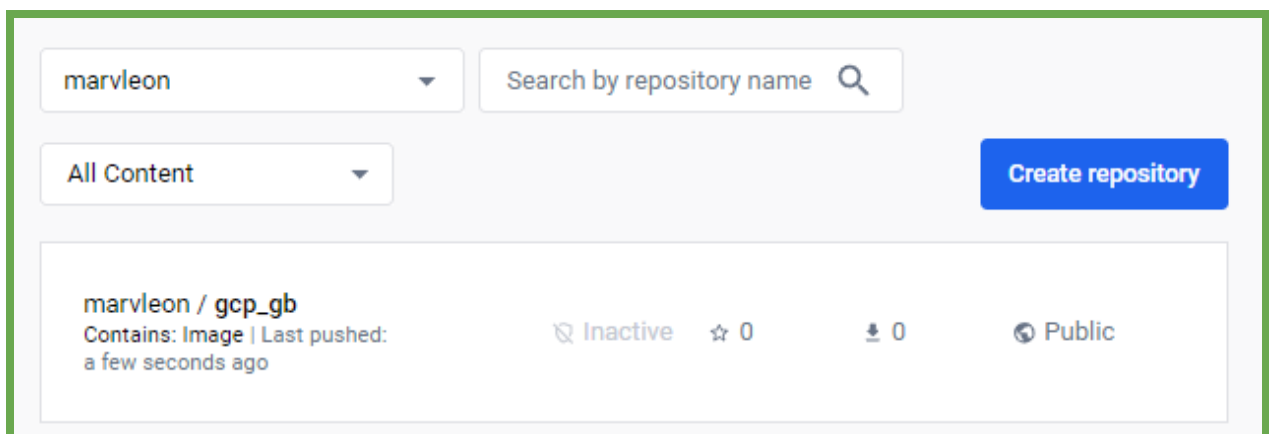
5.2.7



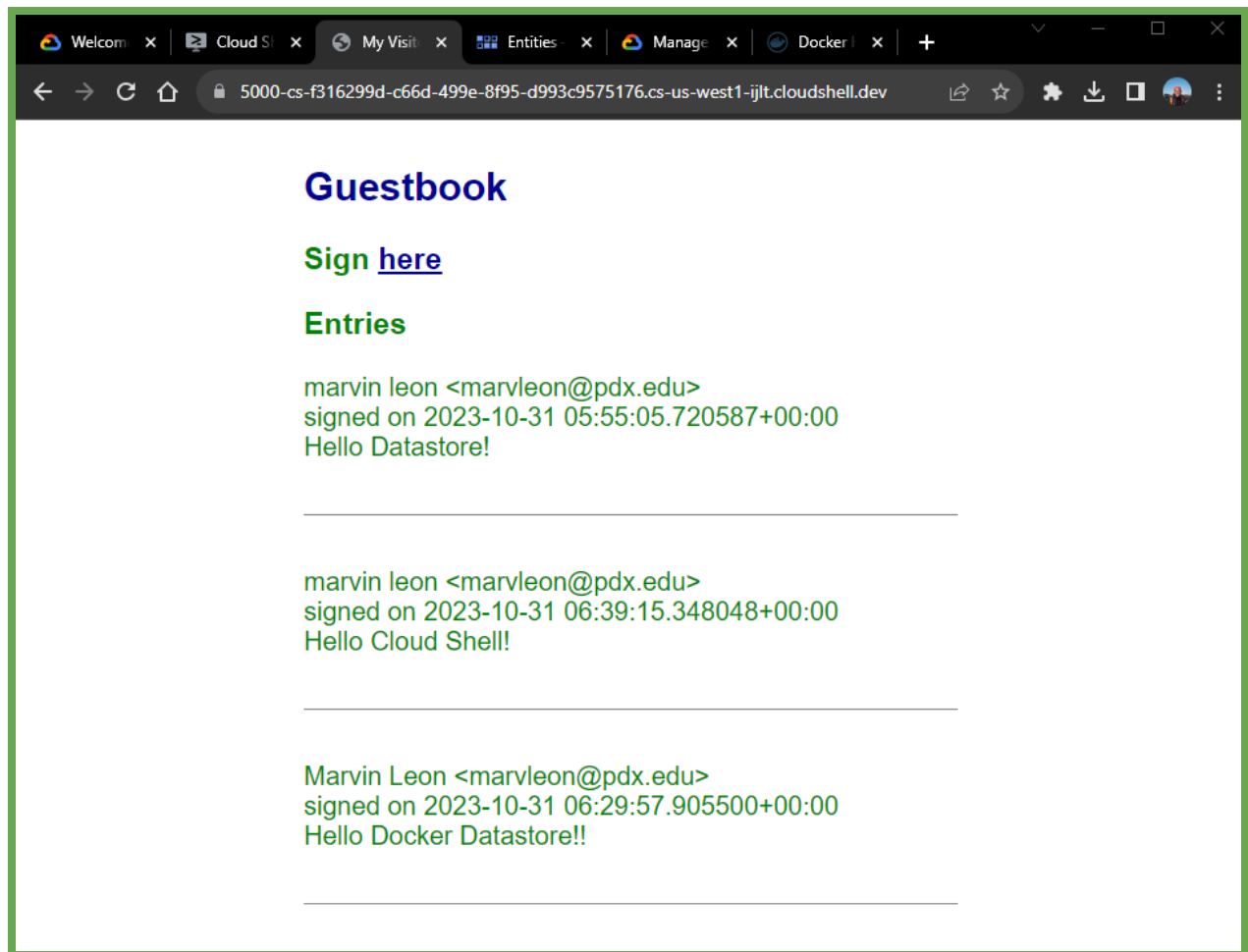
5.2.9



5.2.10



5.2.12



5.2.15

← → ↻ 🏠 ⚠ Not secure | 34.83.55.45 🔗 ☆ ⚙ 🗄 👤 ⋮

Guestbook

Sign [here](#)

Entries

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 06:46:42.377145+00:00
Hello Compute Engine!

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 05:55:05.720587+00:00
Hello Datastore!

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 06:39:15.348048+00:00
Hello Cloud Shell!

5.2.16

| <input type="checkbox"/> | Name/ID ↑ | date | email | message | name |
|--------------------------|-------------------------------------|---|------------------|--------------------------|-------------|
| <input type="checkbox"/> | id=5632499082330112 | October 30, 2023 at 11:46:42.377 PM UTC-7 | marvleon@pdx.edu | Hello Compute Engine! | marvin leon |
| <input type="checkbox"/> | id=5634161670881280 | October 30, 2023 at 10:55:05.720 PM UTC-7 | marvleon@pdx.edu | Hello Datastore! | marvin leon |
| <input type="checkbox"/> | id=5644004762845184 | October 30, 2023 at 11:39:15.348 PM UTC-7 | marvleon@pdx.edu | Hello Cloud Shell! | marvin leon |
| <input type="checkbox"/> | id=5700433016258560 | October 30, 2023 at 11:29:57.905 PM UTC-7 | marvleon@pdx.edu | Hello Docker Datastore!! | Marvin Leon |