Lab Notebook 5 — marvleon

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

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                  10.132.0.2                    TERMINATED
cos-gb                   us-west1-a              e2-micro                   10.138.0.7                    TERMINATED
docker-gb                us-west1-a              e2-micro                   10.138.0.6                    TERMINATED
gcs-lab-vm               us-west1-a              e2-medium                  10.138.0.9   35.233.198.138   RUNNING
nginx-gb                 us-west1-a              e2-medium                  10.138.0.5                    TERMINATED
usgs                     us-west1-a              e2-medium                  10.138.0.8   34.83.55.45      RUNNING
course-vm                us-west1-b              e2-medium                  10.138.0.2                    TERMINATED
vm-us-west1-b            us-west1-b              e2-medium                  10.138.0.3                    TERMINATED
vm-us-east1-b            us-east1-b              e2-medium                  10.142.0.2                    TERMINATED
vm-australia-southeast1-b australia-southeast1-b e2-medium                  10.152.0.2                    TERMINATED
marvleon@gcs-lab-vm:~$
```

5.1.10

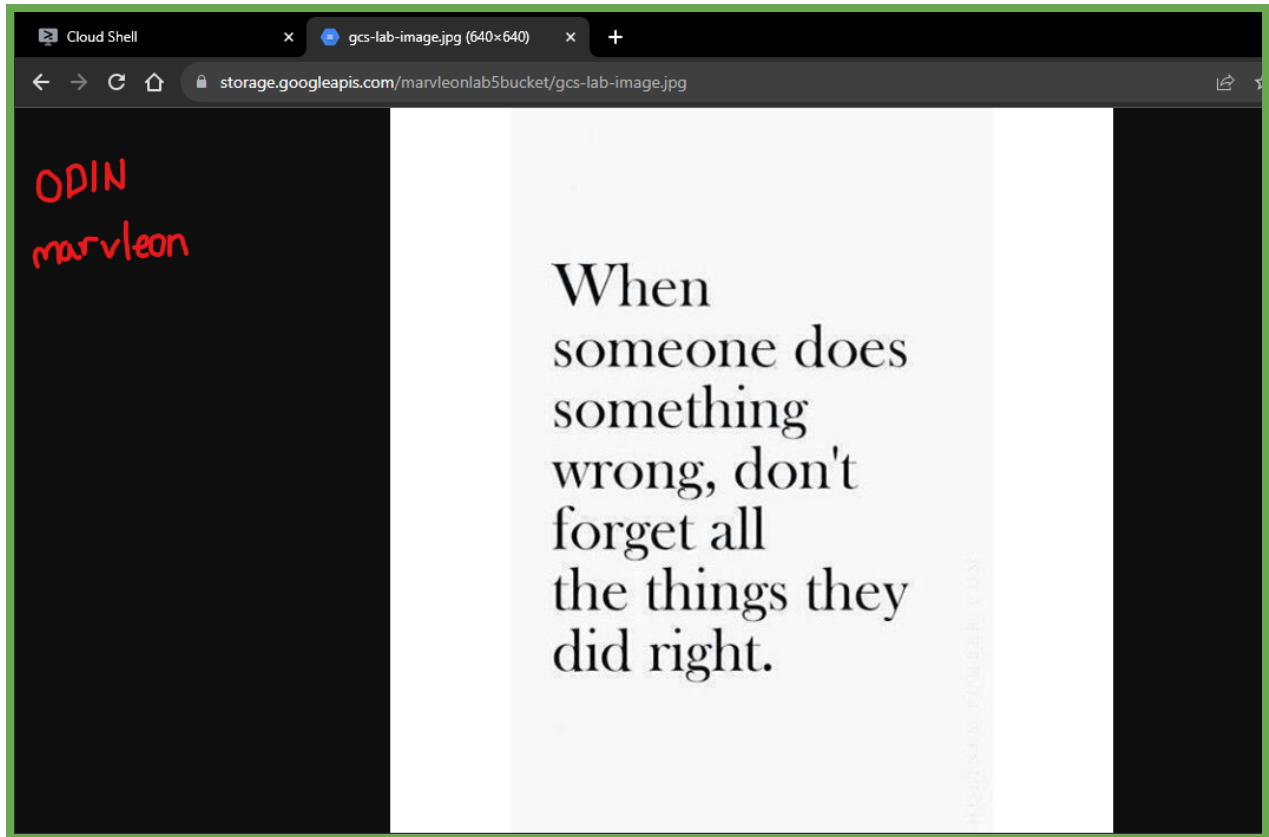**What is the exact error message that is returned?**

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?
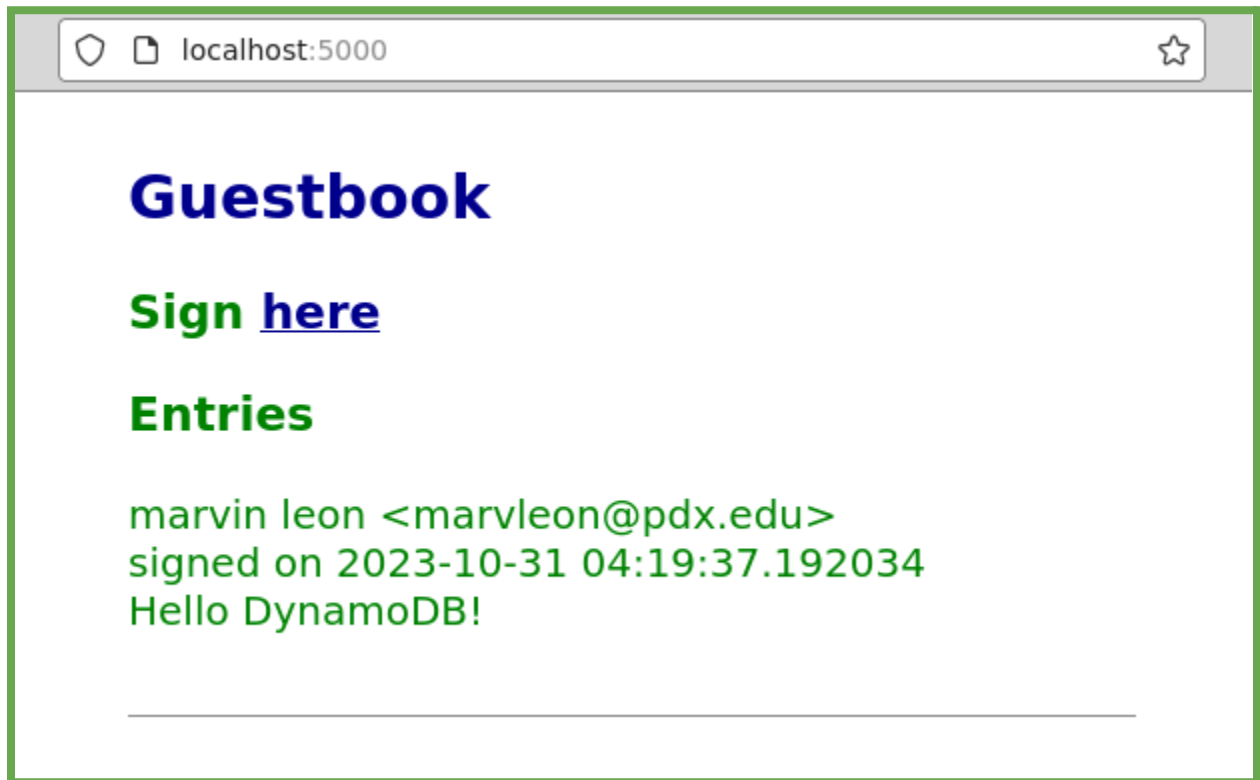
Storage Object Creator

```
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:~$
```
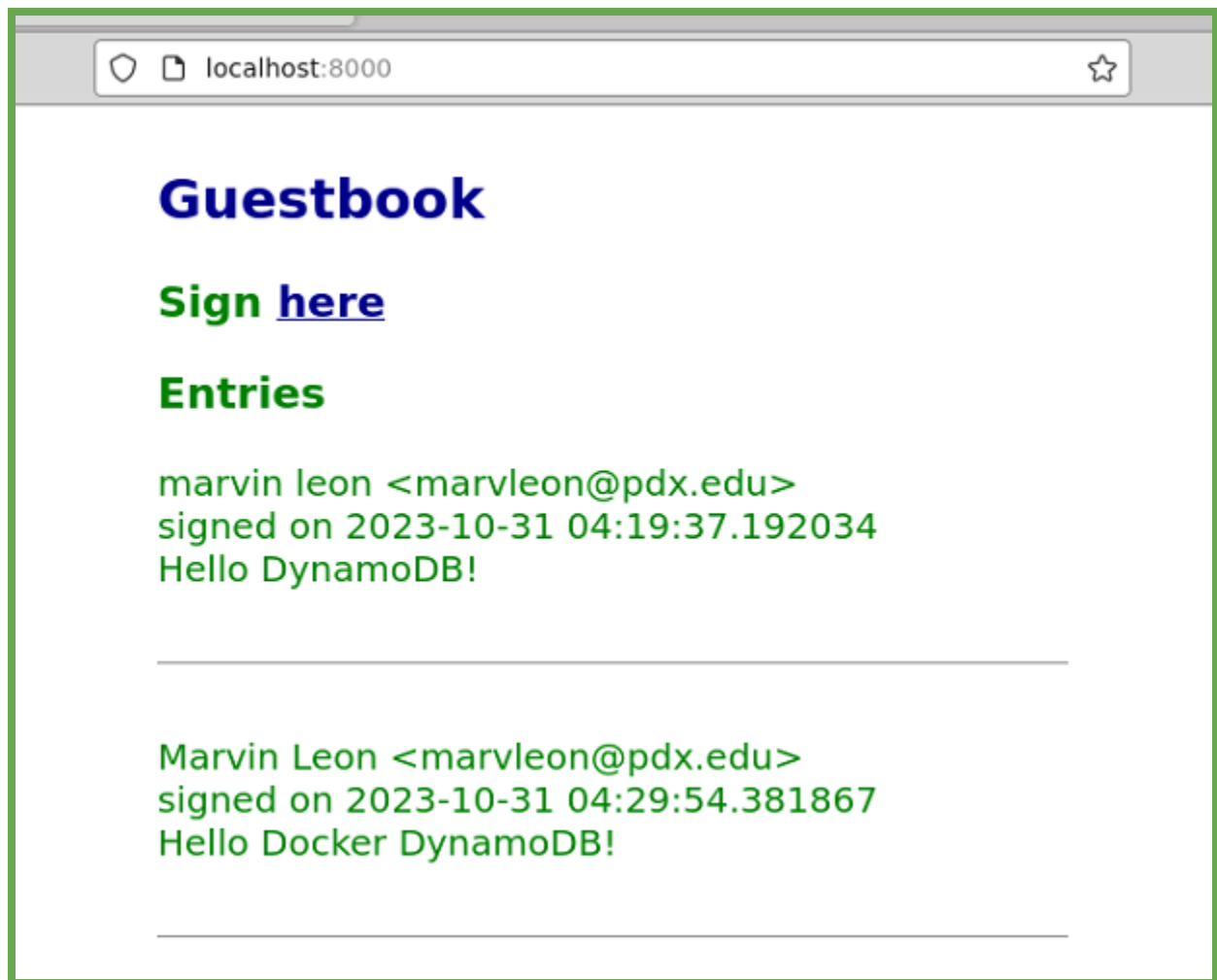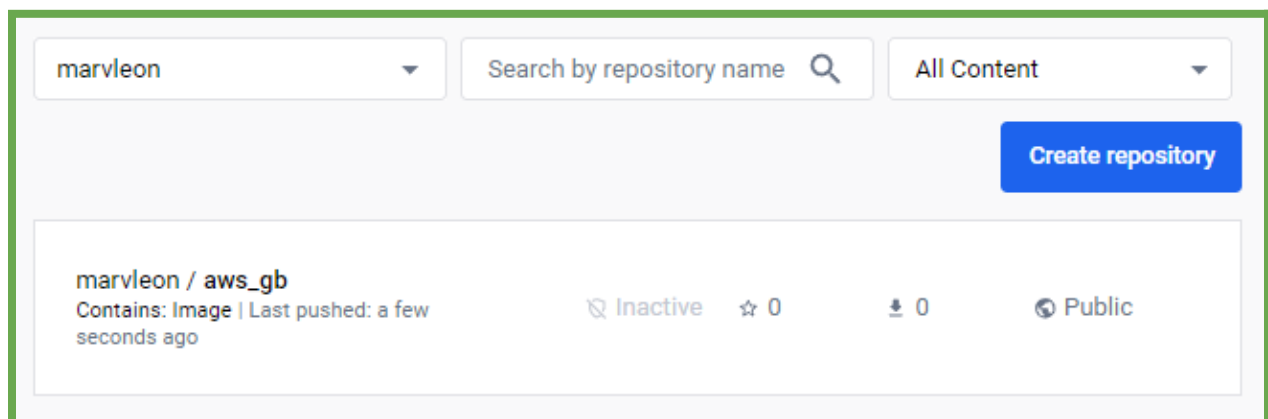
5.1.13
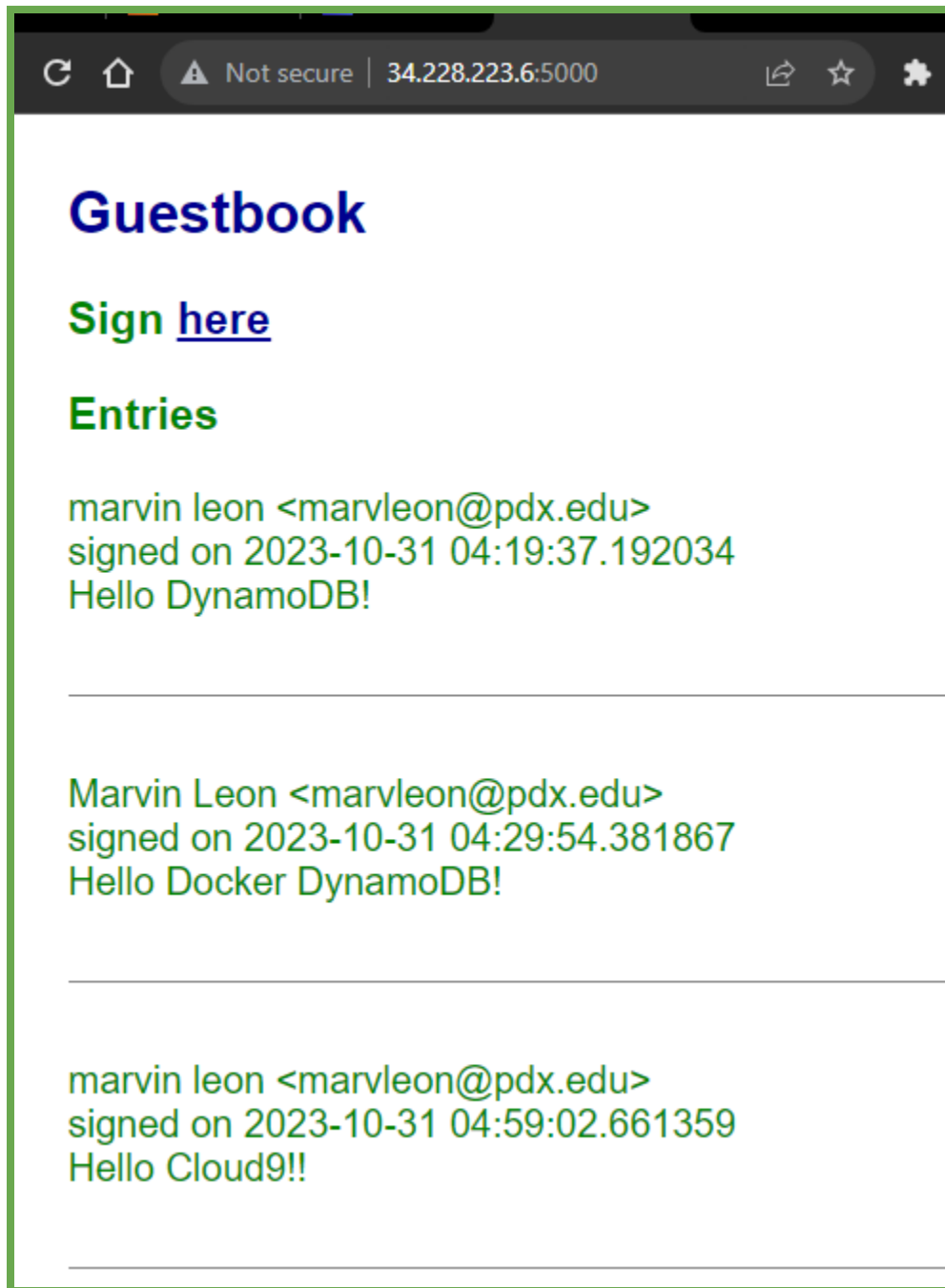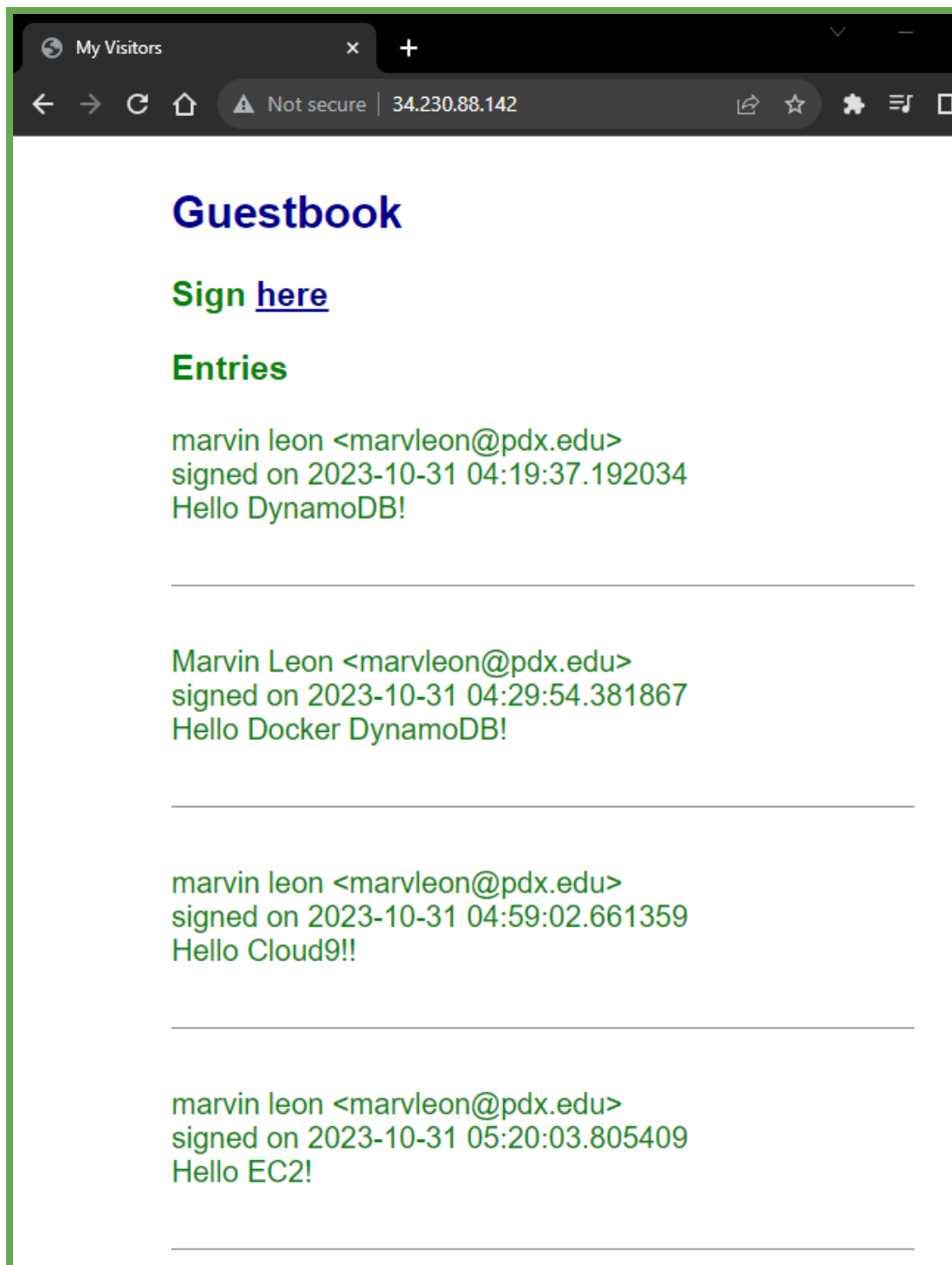
5.2 DynamoDB Guestbook

5.2.5

5.2.7

5.2.8

5.2.11

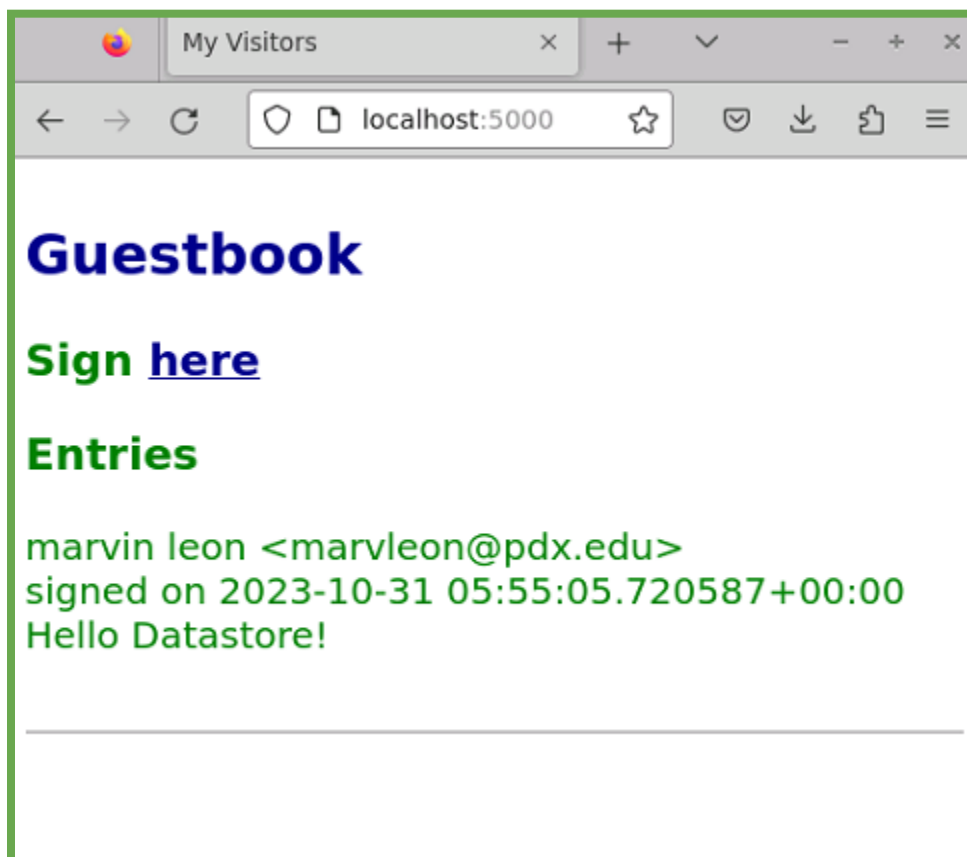
Guestbook

Sign here

Entries

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 04:19:37.192034
Hello DynamoDB!

Marvin Leon <marvleon@pdx.edu>
signed on 2023-10-31 04:29:54.381867
Hello Docker DynamoDB!

---

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 04:59:02.661359
Hello Cloud9!!

5.2.15

Guestbook

Sign here

Entries

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 04:19:37.192034
Hello DynamoDB!

Marvin Leon <marvleon@pdx.edu>
signed on 2023-10-31 04:29:54.381867
Hello Docker DynamoDB!

---

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 04:59:02.661359
Hello Cloud9!!

---

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 05:20:03.805409
Hello EC2!

5.2.16

5.2g Cloud Datastore Guestbook

5.2.7

5.2.9
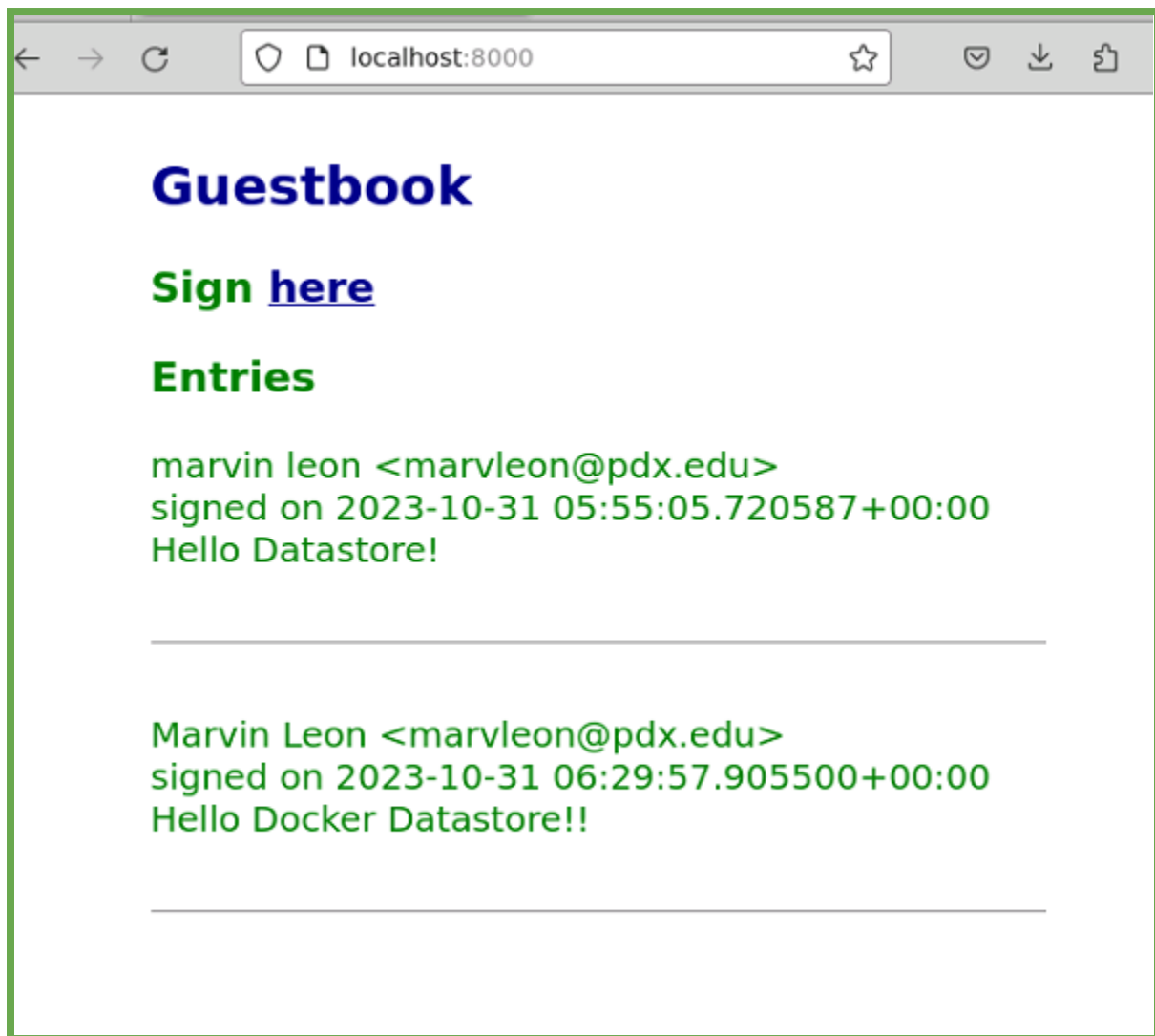
5.2.10
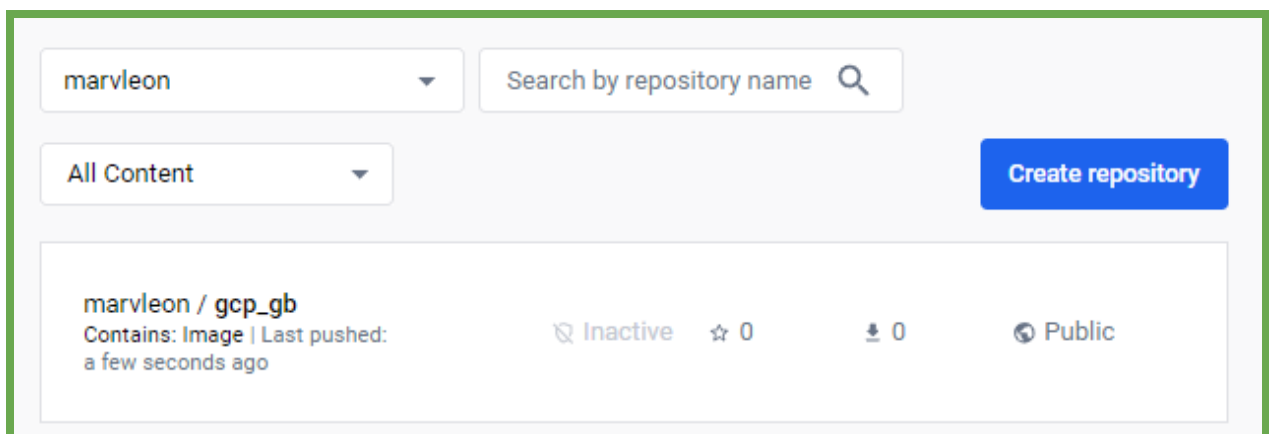
5.2.12
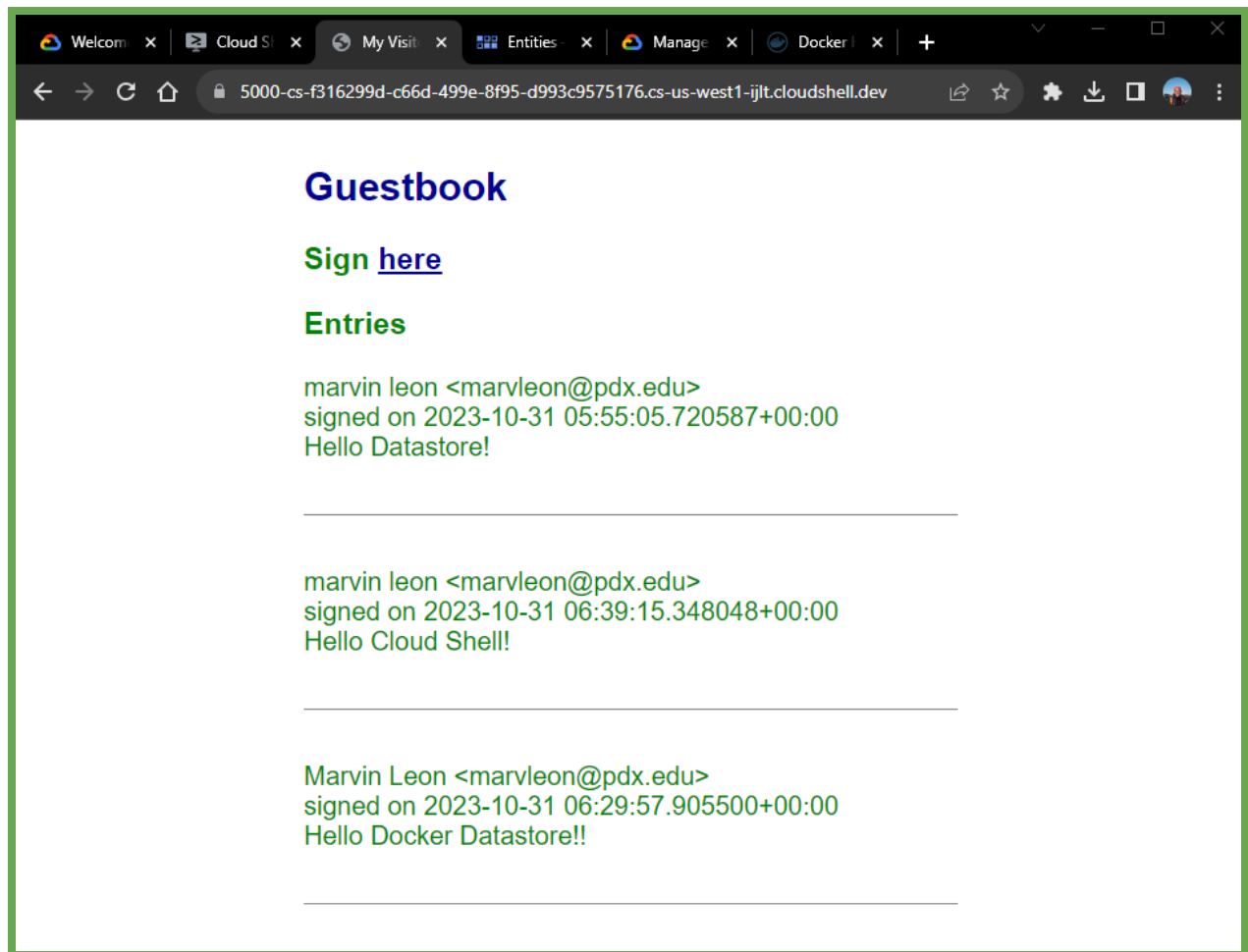
Guestbook

Sign here

Entries

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!

Marvin Leon <marvleon@pdx.edu>
signed on 2023-10-31 06:29:57.905500+00:00
Hello Docker Datastore!!

5.2.15

5.2.16