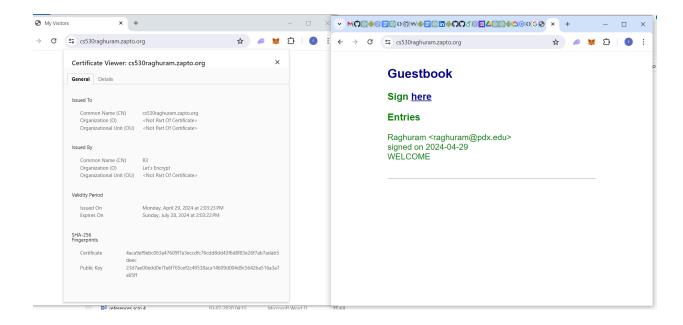
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04.1g: nginx Compute Engine Guestbook

6. Install the application

• Take a screenshot of the site along with its Let's Encrypt certificate and include it in your lab notebook



04.2g. Docker Guestbook

3. Build and run the Ubuntu-based container

Take a screenshot of the results for your lab notebook

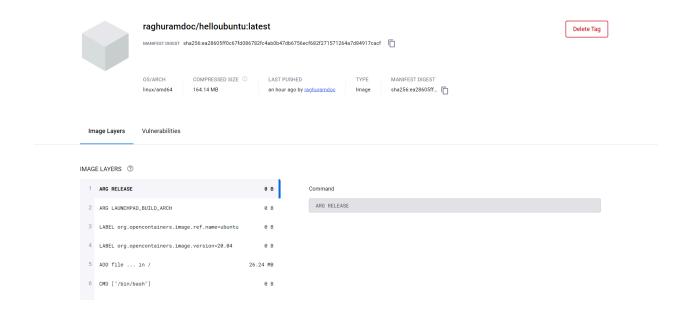
```
raghuram@course-vm:~/cs430-src/04_container_dockerhub$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
helloubuntu latest d041aa124820 38 seconds ago 463MB
ubuntu 20.04 b2c9e106c9d9 12 days ago 72.8MB
raghuram@course-vm:~/cs430-src/04_container_dockerhub$
```

6. Running from Docker Hub

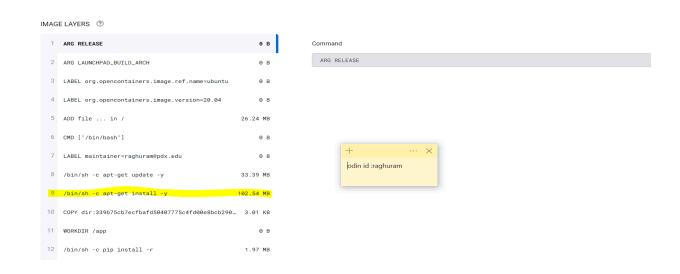
 Run the image directly from Docker Hub and show a screenshot of the output of the command in your lab notebook.

```
raghuram@course-vm:~/cs430-src/04_container_dockerhub$ docker run -di -p 8000:5000 --name hellou raghuramdoc/he lloubuntu
Unable to find image 'raghuramdoc/helloubuntu:latest' locally
latest: Pulling from raghuramdoc/helloubuntu
4477f8fe99eb: Already exists
eb9825cabce2: Pull complete
8a292d59622f: Pull complete
d8f8dbef531c: Pull complete
c4508aa90336: Pull complete
Digest: sha256:ea28605ff0c67fd086782fc4ab0b47db6756ecf682f271571264a7d84917cacf
Status: Downloaded newer image for raghuramdoc/helloubuntu:latest
229934ef6e92bbfe4f11c04f7a9aa3308438417f0bf4006fc641cb204c4397a3
```

Take a screenshot of the container image and its size for your lab notebook.



What layer adds the most to the container image? How much does it add?



8. Build and run the Alpine-based container

 Take a screenshot of the image generated and its size for your lab notebook. How much smaller is the image than the Ubuntu one?

```
raghuram@course-vm:~/cs430-src/04 container dockerhub$ docker images
           TAG IMAGE ID
REPOSITORY
                                  CREATED
                                                  SIZE
helloalpine latest
                     e439aca0037f 9 seconds ago
                                                  71.4MB
ubuntu
            20.04
                    b2c9e106c9d9 12 days ago
                                                 72.8MB
            alpine
                    f44387b48281 2 weeks ago
                                                  57.1MB
python
raghuram@course-vm:~/cs430-src/04 container dockerhub$
```

The size of helloualpine is 391.6 mb smaller than the hello ubuntu

• Show the output of this command in a screenshot for your lab notebook. What might have happened?

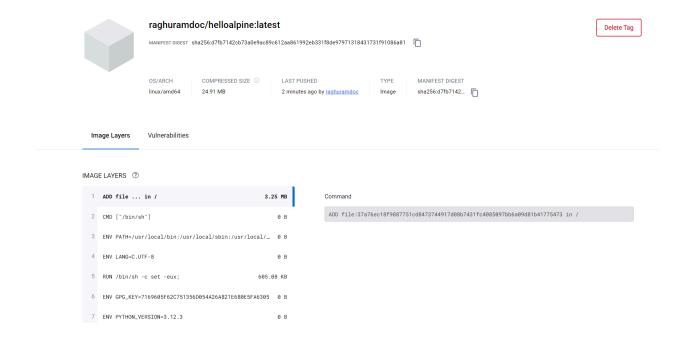
```
raghuram@course-vm:~/cs430-src/04 container dockerhub$ docker exec -it helloa /bin/bash
OCI runtime exec failed: exec failed: unable to start container process: exec: "/bin/bash": stat /bin/bash: no such file or directory: unknown raghuram@course-vm:~/cs430-src/04_container_dockerhub$
```

Bash might not have been installed or it might have been using a different shell

Take a screenshot of the output of each

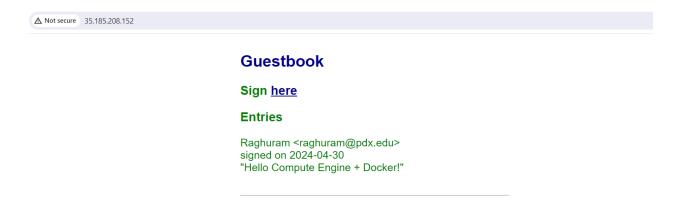
9. Docker Hub Alpine

• Take a screenshot of the container image and its size.



10. Compute Engine Ubuntu VM deployment

 Take a screenshot of the entry that includes the VM's external IP address for your lab notebook



13. -

Take a screenshot of the entry that includes the VM's external IP address for your lab notebook

<u>∧</u> Not secure 34.83.115.219:5000

Guestbook

Sign <u>here</u>

Entries

Raghuram <raghuram@pdx.edu> signed on 2024-04-30 Hello ContainerOS!