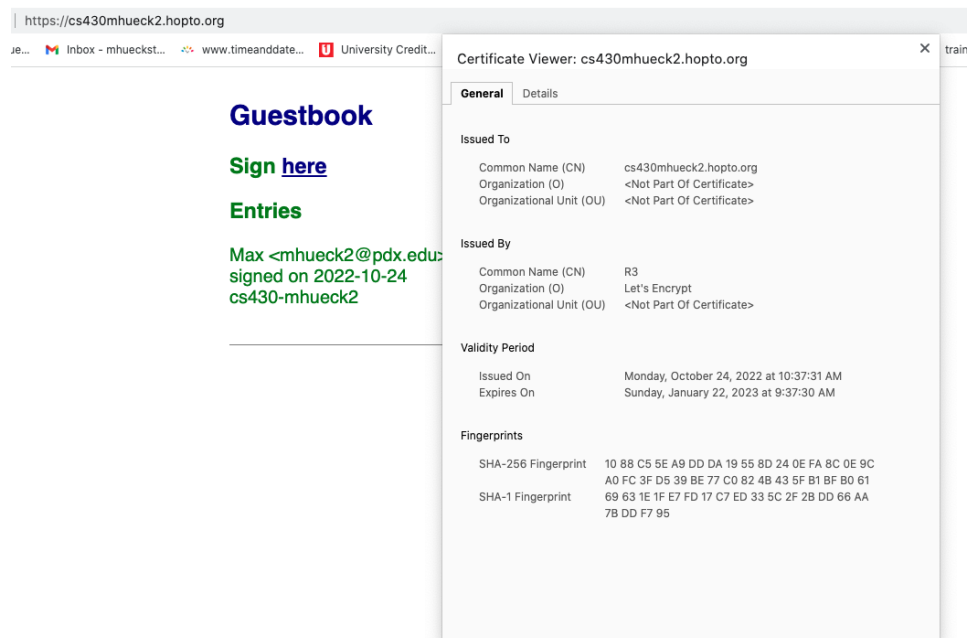


CS 530

Lab 4

Max Huecksteadt

1. Guestbook sign at new DNS with certificate



Docker images:

```
mhueck2@mhueck2-VirtualBox:~/cloud-Huecksteadt-mhueck2/cs430-src/$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
helloubuntu	latest	9de66a654227	6 seconds ago	460MB
ubuntu	18.04	71cb16d32be4	2 weeks ago	63.1MB

PSU ID
969328461

- 2.

Directory in docker container:

```
mhueck2@mhueck2-VirtualBox:~/cloud-Huecksteadt-mhueck2/cs430-src/04_container_dockerhub$ docker exec -it hellou /bin/sh
root@648714fc9481:/app# ls
Dockerfile.alpine Dockerfile.ubuntu app.py gbmodel index.py index.pyc requirements.txt sign.py sign.pyc static templates
root@648714fc9481:/app#
```

Version of linux standard base being used:

```
root@648714fc9481:/# cat /etc/lsb-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=18.04
DISTRIB_CODENAME=bionic
DISTRIB_DESCRIPTION="Ubuntu 18.04.6 LTS"
root@648714fc9481:/#
```

PSU ID
969328461

All processes in container:

```
root@648714fc9481:/# ps -ef
UID          PID    PPID  C STIME TTY          TIME CMD
root           1         0  0  21:22 ?           00:00:00 python app.py
root           8         1  0  21:22 ?           00:00:02 /usr/bin/python /app/app.py
root          11         0  0  21:23 pts/0       00:00:00 /bin/bash
root          26        11  0  21:30 pts/0       00:00:00 ps -ef
root@648714fc9481:/#
```


PSU ID
969328461

Output of dockerhub pull:

```
mhueck2@mhueck2-VirtualBox:~/cloud-Huecksteadt-mhueck2/cs430-src/04_container_dockerhub$ do
cker run -di -p 8000:5000 --name hellou mhueck2/helloubuntu
Unable to find image 'mhueck2/helloubuntu:latest' locally
latest: Pulling from mhueck2/helloubuntu
e706e0a9f423: Already exists
7b6aa2bac306: Pull complete
73e233f7f152: Pull complete
e8d178677ad0: Pull complete
59a18afbe6a3: Pull complete
Digest: sha256:48dd3a0b01c01ddb5b33181f60965752282ee9b1a5378fafccdb898c96247b05
Status: Downloaded newer image for mhueck2/helloubuntu:latest
353a9df9c487c7a4533b3144263f80d26090a597680337eafd1cf3dec70b3630
```

PSU ID
969328461

Dockerhub container:



mhueck2/helloubuntu:latest

DIGEST: sha256:48dd3a0b01c01ddb5b33181f60965752282ee9b1a5378fafccdb898c96247b05

OS/ARCH	COMPRESSED SIZE	LAST PUSHED
linux/amd64	187.98 MB	7 minutes ago by mhueck2

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PSU ID
969328461

3. Docker alpine image, about 3 times smaller than the ubuntu image

```
mhueck2@mhueck2-VirtualBox:~/cloud-Huecksteadt-mhueck2/cs430-src/04_
cker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
helloalpine   latest    1a49ecb8318f   4 seconds ago  59.6MB
python        alpine    880fc229346e   10 days ago   48.7MB
ubuntu        18.04     71cb16d32be4   2 weeks ago   63.1MB
```

PSU ID
969328461

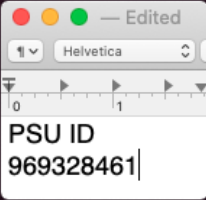
Output of trying to open a bash shell in the alpine docker image:

```
mhueck2@mhueck2-VirtualBox:~/cloud-Huecksteadt-mhueck2/cs430-src/0969328461|terhub$ do
cker 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
```

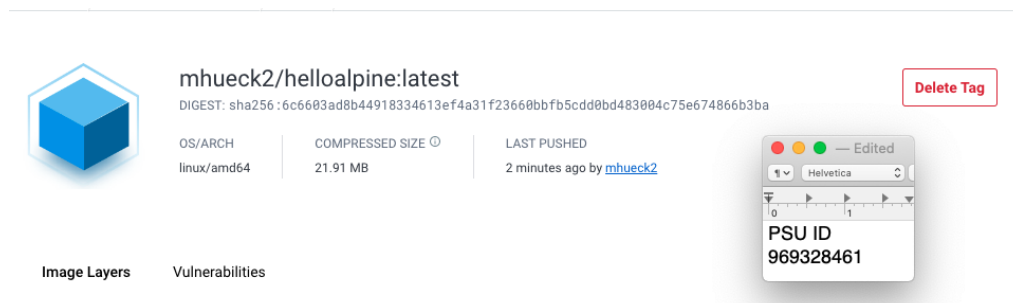
Because alpine linux is stripped down, it doesn't include bash as an 'extra' utility.

Screenshot of alpine linux release and processes:

```
/ # cat /etc/alpine-release
3.16.2
/ # ps -ef
PID   USER     TIME   COMMAND
  1  root      0:00   python app.py
  6  root      0:00   /usr/local/bin/python /app/app.py
 16  root      0:00   /bin/sh
 25  root      0:00   ps -ef
/ #
```



Dockerhub image of helloalpine:



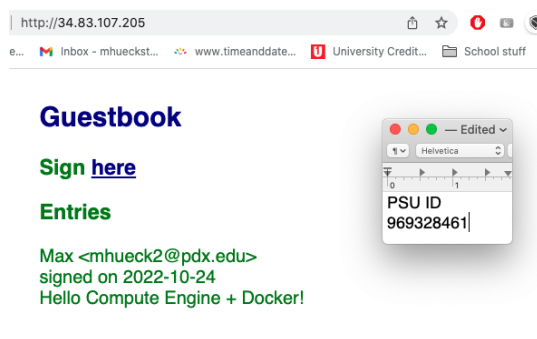
mhueck2/helloalpine:latest
DIGEST: sha256:6c6603ad8b44918334613ef4a31f23660bbfb5cdd0bd483004c75e674866b3ba

OS/ARCH	COMPRESSED SIZE	LAST PUSHED
linux/amd64	21.91 MB	2 minutes ago by mhueck2

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4. Docker image from compute engine VM IP address:



http://34.83.107.205

Guestbook

[Sign here](#)

Entries

Max <mhueck2@pdx.edu>
signed on 2022-10-24
Hello Compute Engine + Docker!

Docker image from ComputeOS

