Student ID: 101492067

Name: Amaan Vahora

```
C:\Users\dell>docker ps
COMMAND
CREATED
STATUS
PORTS
NAMESb3f21023be72
docker/welcome-to-docker
CONTAINER ID
IMAGE
COMMAND
CREATED
STATUS
PORTS
NAMESb3f21023be72
docker/welcome-to-docker

"/docker-entrypoint..." 8 minutes ago Up 8 minutes 80/tcp DemoforLabl

C:\Users\dell>docker ps -a
CONTAINER ID
IMAGE
COMMAND
CREATED
STATUS
PORTS
NAMES

STATUS
PORTS
NAMES
STATUS
PORTS
NAMES
STATUS
PORTS
NAMESb3f21023be72
STATUS
PORTS
NAMES
STATUS
PORTS
NAMESb3f21023be72
About a minute ago
Stated (0) 30 seconds ago
Stated (0) 42 seconds ago
Mystifying_chandras
ekhar
e8596f392228a
alpine
"ls -l"
About a minute ago
Stated (0) About a minute ago
Wind_leakey
DemoforLabl
Ocker/welcome-to-docker:latest
"/docker-entrypoint..."
30 hours ago
Exited (0) 30 hours ago
Welcome-to-docker
```

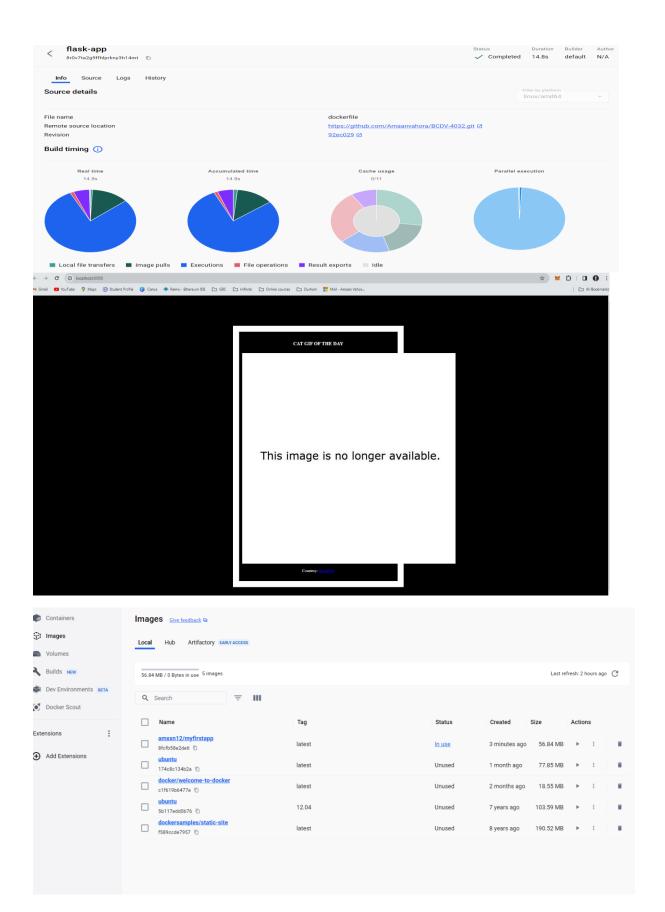
```
25 E:\Amaan Vahora\BCDV-U032> docker ps
COMMAND CREATED STATUS PORTS NAMES
3097138aba151 dockersamples/static-site "/bin/sh -c 'cd /usr." About a minute ago Up About a minute 80/tcp, 443/tcp confident_saha
25 E:\Amaan Vahora\BCDV-U032> docker stopdocker 89d718aba151
30ckers: 'stopdocker' is not a docker command.
25 E:\Amaan Vahora\BCDV-U032> docker stop 89d718aba151
309718aba151
25 E:\Amaan Vahora\BCDV-U032> docker rm 89d718aba151
25 E:\Amaan Vahora\BCDV-U032> docker rm 89d718aba151
25 E:\Amaan Vahora\BCDV-U032> docker rm 89d718aba151
25 E:\Amaan Vahora\BCDV-U032> docker run --name static-site -e AUTHOR="Amaan Vahora" -d -P dockersamples/static-site
5293673735215a23061ba8adc137e9efe8a6f3825c614c6cdc3ba4128298ccd
25 E:\Amaan Vahora\BCDV-U032> docker port static-site
80/tcp -> 0.0.0.9:32769
403/tcp -> 0.0.0.9:32769
403/tcp -> 0.0.0.9:32769
403/tcp -> 0.0.0.9:32760
404 CREATED SIZE
404 CREATED SIZE
405 CREATED SIZE
405 CREATED SIZE
405 CREATED SIZE
405 CREATED SIZE
406 CREATED SIZE
406 CREATED SIZE
506 CREATED SIZE
507 CREATED SIZE
508 CREATED SIZ
```

Hello Amaan Vahora!

This is being served from a **docker** container running Nginx.

Flask-app Outputs:-

```
PS E:\Amaan Vahora\BCDV-4032\Lab1\flask-app> docker build -t amxxn12/myfirstapp .
[+] Building 14.9s (12/12) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from dockerfile
=> [internal] load metadata for docker.io/library/alpine:3.5
=> [auth] library/alpine:pull token for registry-1.docker.io
=> [1/6] FROM docker.io/library/alpine:3.5@sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa660246b3e76ec
=> resolve docker.io/library/alpine:3.5@sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa660246b3e76ec
=> => sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa660246b3e76ec 433B / 433B => => sha256:f7d2b5725685826823bc6b154c0de02832e5e6daf7dc25a00ab00f1158fabfc8 528B / 528B
=> sha256:f80194ae2e0ccf0f098baa6b981396dfbffb16e6476164af72158577a7de2dd9 1.51kB / 1.51kB
=> sha256:8cae0elac61cead281f41115cc0ebd39117f7e54dffc8fd5e05a7590dca3cd4e 1.97MB / 1.97MB
=> extracting sha256:8cae0e1ac61cead281f41115cc0ebd39117f7e54dffc8fd5e05a7590dca3cd4e
=> [2/6] RUN apk add --update py2-pip
=> [3/6] COPY requirements.txt /usr/src/app/
=> [4/6] RUN pip install --no-cache-dir -r /usr/src/app/requirements.txt
 => [5/6] COPY app.py /usr/src/app/
 => [6/6] COPY templates/index.html /usr/src/app/templates/
 => exporting to image
=> => exporting layers
 => => writing image sha256:8fcfb58e2de6e20d76723795d078ad48a7d11e32a9dd81c5f4c1be21b7d1ae93
PS E:\Amaan Vahora\BCDV-4032\Lab1\flask-app> docker login
Authenticating with existing credentials...
Login Succeeded
PS E:\Amaan Vahora\BCDV-4032\Lab1\flask-app> docker push amxxn12/myfirstapp
Using default tag: latest
The push refers to repository [docker.io/amxxn12/myfirstapp]
462cddb4141e: Pushed
9e79db7e623e: Pushed
a4491bc88390: Pushed
12139dd7f21c: Pushed
5c313e64c7d0: Pushed
f566c57e6f2d: Mounted from library/alpine
latest: digest: sha256;c88a33a8b582fe9f4fee2a59c4a9a9e4fec21edd6193ff29fc65dd961fdaa8dd size: 1571
PS E:\Amaan Vahora\BCDV-4032\Lab1\flask-app>
```



Deploying app to swarm outputs: -

```
PS C:\Users\dell\Desktop\step3> cd example-voting-app
PS C:\Users\dell\Desktop\step3\example-voting-app> docker swarm init
Swarm initialized: current node (g@fu95zqt4no6iw61h8absbld) is now a manager.
    To add a worker to this swarm, run the following command:
docker swarm join --token SWMTKN-1-1vu69t4h41fatbo2fepjx54a6xdhnhy0pzqpaezdwlk0y2mqsl-brzeqxq12ybkvin3txls5kd7u 192.168.65.3:2377
     To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
    PS C:\Users\dell\Desktop\step3\example-voting-app> docker stack deploy --compose-file docker-stack.yml vote
                                                                      redis:alpine
dockersamples/examplevotingapp_result:latest *:5001->80/tcp
dockersamples/examplevotingapp_worker:latest *:5000->80/tcp
dockersamples/examplevotingapp_worker:latest
```

