Nalongsone Danddank   Student ID : 14958950   StarID: jf3893pd
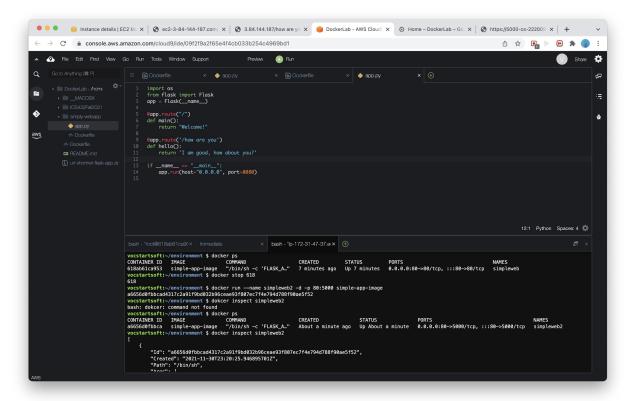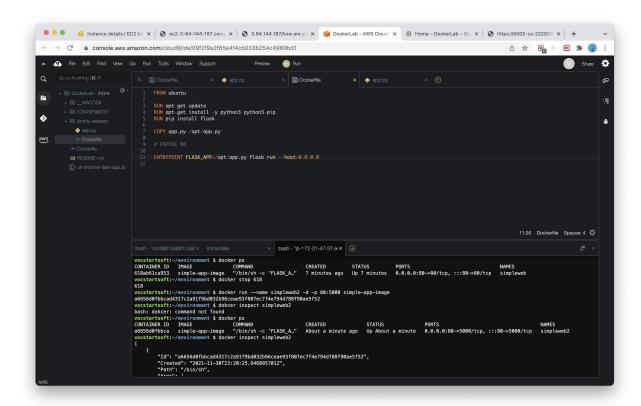
Email: nalongsone.danddank@my.metrostate.edu\

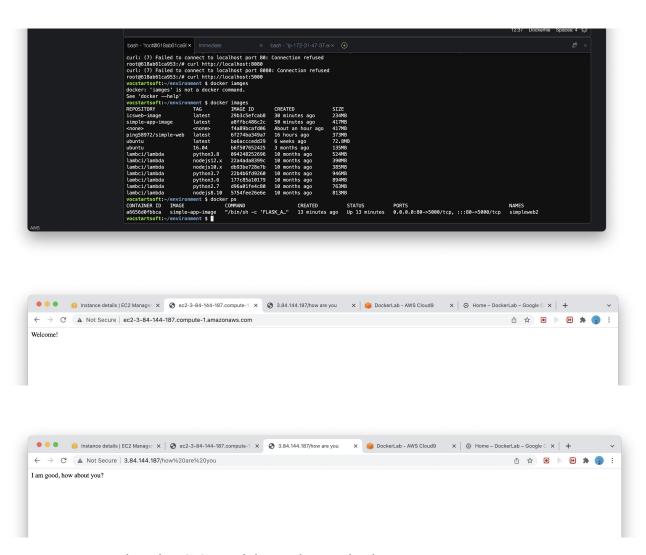ICS 432 - 01 — Distributed and Cloud Computing Fall 2021

Docker Lab : Docker in AWS and GCP

Exercise 1: Docker in AWS with Python Flask

Lab report screen-shot #1:

Exercise 2: Docker in GCP with Python Flask

Lab report screen-shot:

```python
1   import os
2   from flask import Flask
3   app = Flask(__name__)
4
5   @app.route("/")
6   def main():
7       return "Welcome!"
8
9   @app.route('/how are you')
10  def hello():
11      return 'I am good, how about you?'
12
13  if __name__ == "__main__":
14      app.run(host="0.0.0.0", port=8080)
15
```



```
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for ca-certificates (20210119~20.04.2) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Removing intermediate container 184ac1675b71
 ---> 5e1594f892c8
Step 4/6 : RUN pip install flask
 ---> Running in 9a9f92f4d4e4
Collecting flask
  Downloading Flask-2.0.2-py3-none-any.whl (95 kB)
Collecting Werkzeug>=2.0
  Downloading Werkzeug-2.0.2-py3-none-any.whl (288 kB)
Collecting click>=7.1.2
  Downloading click-8.0.3-py3-none-any.whl (97 kB)
Collecting Jinja2>=3.0
  Downloading Jinja2-3.0.3-py3-none-any.whl (133 kB)
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.0.1-cp38-cp38-manylinux2010_x86_64.whl (30 kB)
Installing collected packages: Werkzeug, click, MarkupSafe, Jinja2, itsdangerous, flask
Successfully installed Jinja2-3.0.3 MarkupSafe-2.0.1 Werkzeug-2.0.2 click-8.0.3 flask-2.0.2 itsdangerous-2.0.1
Removing intermediate container 9a9f92f4d4e4
 ---> 259fc47f2d7e
Step 5/6 : COPY app.py /opt/app.py
 ---> b62420bb2c4d
Step 6/6 : ENTRYPOINT FLASK_APP=/opt/app.py flask run --host-0.0.0.0
 ---> Running in 5072756976bb
Removing intermediate container 5072756976bb
 ---> 21fa39799459
Successfully built 21fa39799459
Successfully tagged simpleweb:latest
pink58972@cloudshell:~ (dockerlab-333723)$ docker iamges
docker: 'iamges' is not a docker command.
See 'docker --help'
pink58972@cloudshell:~ (dockerlab-333723)$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
simpleweb     latest    21fa39799459   43 seconds ago  417MB
ubuntu        latest    ba6acccedd29   6 weeks ago     72.8MB
pink58972@cloudshell:~ (dockerlab-333723)$ docker run --name simple -d -p 5000:5000 simpleweb
7e6e912d20a1a3c85e046ff4a769cb2d6a2e8a7c274f018f75a0ea67fa79021e
pink58972@cloudshell:~ (dockerlab-333723)$ docker ps
CONTAINER ID   IMAGE       COMMAND            CREATED        STATUS         PORTS                     NAMES
7e6e912d20a1   simpleweb   "/bin/sh -c 'FLASK_A…"  5 seconds ago  Up 4 seconds   0.0.0.0:5000->5000/tcp   simple
pink58972@cloudshell:~ (dockerlab-333723)$
```


Welcome!

I am good, how about you?