## Task

## Hosting Python Flask App using Docker

Name - Shashank Sharma

- 1. Create EC2 instance with ubuntu image.
- 2. In instance install docker. (before installing docker you should be in root user using command sudo -i)

Link - https://docs.docker.com/engine/install/ubuntu/

3. Make git clone of repo.

# git clone <a href="https://github.com/shashanksharma1309/python-flask-docker-image.git">https://github.com/shashanksharma1309/python-flask-docker-image.git</a>
(for files you can clone my repo using

Link - <a href="https://github.com/shashanksharma1309/python-flask-docker-image.git">https://github.com/shashanksharma1309/python-flask-docker-image.git</a>)

```
root@ip-172-31-23-222:~# git clone https://github.com/shashanksharma1309/python-flask-docker-image.git
Cloning into 'python-flask-docker-image'...
remote: Enumerating objects: 23, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 23 (delta 2), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (23/23), 1.31 MiB | 5.74 MiB/s, done.
Resolving deltas: 100% (2/2), done.
```

4. After completing the git clone go upto the your repo.

```
In my case
# Is
# cd python-flask-docker-image
```

# Is # vim Docker file (create a docker file)

```
root@ip-172-31-23-222:~‡ ls

python-flask-docker-image snap

root@ip-172-31-23-222:~‡ cd python-flask-docker-image/
root@ip-172-31-23-222:~/python-flask-docker-image# ls

Procfile README.md app.py nltk.txt readme_images requirements.txt runtime.txt static summarizer.py templates
root@ip-172-31-23-222:~/python-flask-docker-image# vim Dockerfile
```

After entering into the Dockerfile add docker image script.# vim Dockerfile

```
LABEL Folder="FlaskApp"

LABEL Author="shashank"

COPY . .

RUN pip install -r requirements.txt

EXPOSE 5000

CMD ["flask" ,"run" ,"--host","0.0.0.0"]
```

6. After writing script save & exit from it.

7. Use command to build docker image.

# docker build.

8. After completion of image building use command to see docker image.

# docker images

```
root@ip-172-31-23-222:~/python-flask-docker-image# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

<none> <none> 49f032826faa About a minute ago 1.68GB

shashank9532dockerhub/docker flask a89aa627562e 45 minutes ago 1.68GB

root@ip-172-31-23-222:~/python-flask-docker-image#
```

9. Add port 5000 to the image.

# docker run -d -p 5000:5000 <image-id>

root@ip-172-31-23-222:~/python-flask-docker-image# docker run -d -p 5000:5000 49f da33af0df10810123638ef0bf2d7200c11a809793386bdea71eac9f08ff9e39b root@ip-172-31-23-222:~/python-flask-docker-image#

10. Hit the instance IP to check application.

# http://<instance-ip>:5000/web/

In my case

# http://13.57.237.154:5000/web/

