[ec2-user@ip-172-31-20-251 ~]$ sudo yum update

[ec2-user@ip-172-31-20-251 ~]$ pip install --upgrade pip

[ec2-user@ip-172-31-20-251 ~]$ sudo pip install Flask

[ec2-user@ip-172-31-20-251 ~]$ mkdir -p app

[ec2-user@ip-172-31-20-251 ~]$ ls

[ec2-user@ip-172-31-20-251 ~]$ cd app

[ec2-user@ip-172-31-20-251 app]$ mkdir static

[ec2-user@ip-172-31-20-251 app]$ mkdir templates

[ec2-user@ip-172-31-20-251 app]$ vim flask\_cloud.py

Add the python code

[ec2-user@ip-172-31-20-251 app]$ cd static

[ec2-user@ip-172-31-20-251 static]$ vim style.css

Add the css code to style.css file

[ec2-user@ip-172-31-20-251 static]$ cd ..

[ec2-user@ip-172-31-20-251 app]$ cd templates

[ec2-user@ip-172-31-20-251 templates]$ vim index.html

[ec2-user@ip-172-31-20-251 templates]$ cd ..

[ec2-user@ip-172-31-20-251 app]$ export FLASK\_APP=flask\_cloud.py

[ec2-user@ip-172-31-20-251 app]$ flask run --host='0.0.0.0'

\* Serving Flask app "flask\_cloud.py"

\* Environment: production

WARNING: Do not use the development server in a production environment.

Use a production WSGI server instead.

\* Debug mode: off

\* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)

After this copy your DNS and add :5000 and your application will run on the ec2 server

To exit ctrl + c

Installing Docker using Nginx

[ec2-user@ip-172-31-20-251 ~]$ sudo yum install -y docker

[ec2-user@ip-172-31-20-251 ~]$ sudo service docker start

[ec2-user@ip-172-31-20-251 ~]$ sudo usermod -a -G docker ec2-user

[ec2-user@ip-172-31-20-251 ~]$ docker info

Permission would be denied because the user is not superuser

[ec2-user@ip-172-31-20-251 ~]$ sudo su

Using this command the user becomes superuser

[ec2-user@ip-172-31-20-251 ~]$ docker info

[root@ip-172-31-20-251 ec2-user]# docker search "nginx python flask"

[root@ip-172-31-20-251 ec2-user]# docker pull tiangolo/uwsgi-nginx-flask

[root@ip-172-31-20-251 ec2-user]# docker run -p 80:80 tiangolo/uwsgi-nginx-flask

Just run the DNS name on the server and to stop nginx press CTRL + C

[root@ip-172-31-20-251 app]# docker logs hello\_world

[root@ip-172-31-20-251 app]# vim Dockerfile

FROM tiangolo/uwsgi-nginx-flask:python3.7

COPY ./ /app

Notice you got to give correct path of the Dockerfile or else the Putty will through an error

[root@ip-172-31-20-251 app]# docker build -t webserver .

[root@ip-172-31-20-251 app]# docker run -d --name flask\_demo -p 80:80 webserver

[root@ip-172-31-20-251 app]# docker commit 2b36d97a7943 ghewadesumit/2b36d97a7943

[root@ip-172-31-20-251 app]# docker push ghewadesumit/2b36d97a7943

[root@ip-172-31-20-251 app]# docker stop 2b36d97a7943

[root@ip-172-31-20-251 app]# docker pull ghewadesumit/2b36d97a7943:latest

[root@ip-172-31-20-251 app]# docker run -p 8080:8080 ghewadesumit/2b36d97a7943