

Flask in docker

Step 1:- Create an EC2 instance

Ports:22, 5000

Step 2:- Connect to EC2 instance

Step 3:- Install Docker Engine latest version

<https://docs.docker.com/engine/install/ubuntu/> (for ubuntu)

Step 4:- Create Dockerfile

```
FROM python:3.9-slim-buster
LABEL engg="prat"

WORKDIR /app
COPY ./requirements.txt /app
RUN pip install -r requirements.txt
COPY . .
ENV FLASK_APP=app.py
EXPOSE 5000
CMD ["flask", "run", "--host", "0.0.0.0"]
```

Build image from dockerfile

```
root@ip-172-31-30-167:~/Flask# docker build .
[+] Building 10.8s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 247B
=> [internal] load metadata for docker.io/library/python:3.9-slim-buster
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/5] FROM docker.io/library/python:3.9-slim-buster@sha256:320a7a4250aba4249f458872adecf92eea88dc6abd2d76dc5c0f01cac9b53990
=> => resolve docker.io/library/python:3.9-slim-buster@sha256:320a7a4250aba4249f458872adecf92eea88dc6abd2d76dc5c0f01cac9b53990
=> => sha256:8b91b88d557765cd8c6802668755a3f6dc4337b6ce15a17e4857139e5fc964f3 27.14MB / 27.14MB
=> => sha256:824416e234237961c9c5d4f41dfe5b295a3c35a671ee528899fb08d8e257ec4c 2.78MB / 2.78MB
=> => sha256:8d53da26040936f622504d7762fada4d226ac44efeb5363f5fcbcb94f224d 11.04MB / 11.04MB
=> => sha256:320a7a4250aba4249f458872adecf92eea88dc6abd2d76dc5c0f01cac9b53990 988B / 988B
=> => sha256:d5ccc64dca485c37ccf66721e36a93bf4331b0404bfdf2c7873867965359b7 1.37KB / 1.37KB
=> => sha256:c84dbfe3b8deeb39e17d121220107f3354a9083b468a320a77708cd128f11c87 6.82KB / 6.82KB
=> => extracting sha256:8b91b88d557765cd8c6802668755a3f6dc4337b6ce15a17e4857139e5fc964f3
=> => sha256:84c8c7912f666b9eecd1dcf6f34cd88094471745570c19c29b465dfa7db1fdabd 243B / 243B
=> => sha256:2e1c130fa3ec1777a82123374b4c500623959f903c1dd731ee4a83e1f1b38ff2 3.14MB / 3.14MB
=> => extracting sha256:824416e234237961c9c5d4f41dfe5b295a3c35a671ee528899fb08d8e257ec4c
=> => extracting sha256:8d53da26040936f622504d7762fada4d226ac44efeb5363f5fcbcb94f224d
=> => extracting sha256:84c8c7912f666b9eecd1dcf6f34cd88094471745570c19c29b465dfa7db1fdabd
=> => extracting sha256:2e1c130fa3ec1777a82123374b4c500623959f903c1dd731ee4a83e1f1b38ff2
=> [internal] load build context
=> => transferring context: 6.66kB
=> [2/5] WORKDIR /app
=> [3/5] COPY ./requirements.txt /app
=> [4/5] RUN pip install -r requirements.txt
=> [5/5] COPY . .
=> exporting to image
=> => writing image sha256:cb197647346d10c8ece2ae0c178d990aa07442a63fdd0436e2be52f37c443309
```

Step 5:- Create container using Image

`docker run -d -p 5000:5000 <imageid>`

Step 6:- Copy instanceIP and paste into browser

