

TAKS = Hosting Python Flask App using Docker

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1) Create a EC2 instance with ubuntu image (with port number 5000)

- Connect the EC2 instance
- Sudo -i
- Install the docker in ubuntu image
- Make git clone repo

<https://github.com/Mayur2905/FlaskApp.git>

```
root@ip-172-31-1-48:~# git clone https://github.com/Mayur2905/FlaskApp.git
Cloning into 'FlaskApp'...
remote: Enumerating objects: 29, done.
remote: Counting objects: 100% (29/29), done.
remote: Compressing objects: 100% (23/23), done.
remote: Total 29 (delta 3), reused 27 (delta 2), pack-reused 0
Receiving objects: 100% (29/29), 1.31 MiB | 22.78 MiB/s, done.
Resolving deltas: 100% (3/3), done.
```

2) Create docker file in the project repository

- Cd Flask
- Vim Docker

3) Add the following code in the docker file

```
From python:3.8

LABEL Folder="Flaskapp"
LABEL Author="Akshay"

COPY . .

RUN pip install -r requirements.txt

EXPOSE 5000

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

4) Create a docker image using docker build .

- # cd /flask = Docker build .

[illegible]

5) List the image using

- Docker image

```
root@ip-172-31-32-67:~/FlaskApp# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
<none>	<none>	f536e8e6332a	About a minute ago	1.68GB

```
root@ip-172-31-32-67:~/FlaskApp#
```


6) Create a container using the docker image

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

```
root@ip-172-31-32-67:~/FlaskApp# docker run -d -p 5000:5000 f53
488c3530e87e996435a8c43be513fbd60f1eb5ccd68773e26cc0e135f06e5f50
docker: Error response from daemon: driver failed programming external co
```

7) Check the application

- Check the out put on the screen < 43.201.22.51:5000/web



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