## **Docker and Container Internals**

- 1) first fork the repo
- 2)clone your github repo
- 3)create a Dockerfile

```
naster@master-vm:~/Desktop$ git clone https://github.com/Bhargavkulla/k8s-helloworld.git
Cloning into 'k8s-helloworld'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 9 (delta 2), reused 1 (delta 1), pack-reused 4 (from 1)
Unpacking objects: 100% (9/9), 2.29 KiB | 585.00 KiB/s, done.
master@master-vm:~/Desktop$ ls
 ansible_kube flask-sample-app
                                      'git clone'
                                                        nginx-config-pod.yaml
                                       k8s-helloworld
flask-kube
                                                       nginx-secret-pod.yaml
master@master-vm:~/Desktop$ cd k8s-helloworld/
master@master-vm:~/Desktop/k8s-helloworld$ ls
app.py README.md requirements.txt
```

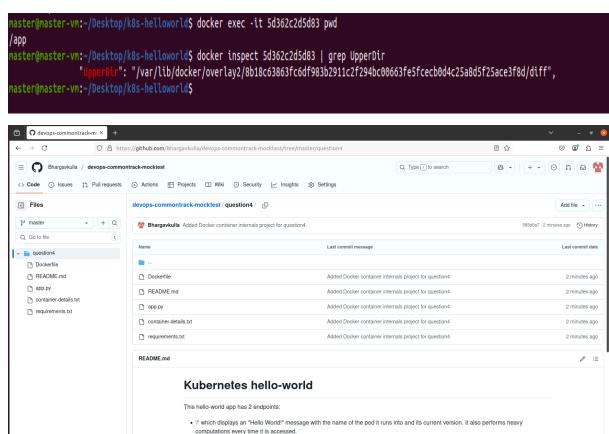
4)Build docker with docker build -t flask-app in the current directory

## 5)run the container

```
Successfully built 1e3835761eba
Successfully tagged flask-app:latest
master@master-vm:~/Desktop/k8s-helloworld$ docker run -d -p 5000:5000 flask-app
5d362c2d5d83c944a9f8486a8721d22529117b42b0e54883dda8e5ea0a0f47c1
master@master-vm:~/Desktop/k8s-helloworld$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
5d362c2d5d83 flask-app "python app.py" 10 seconds ago Up 8 seconds 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp elastic_snyder
master@master-vm:~/Desktop/k8s-helloworld$ docker exec -it 5d362c2d5d83 pwd
/app
```

## 6) get working directory inside the container

## 7)Get read-write layer directory on the host



· '/health' which provides a basic health check