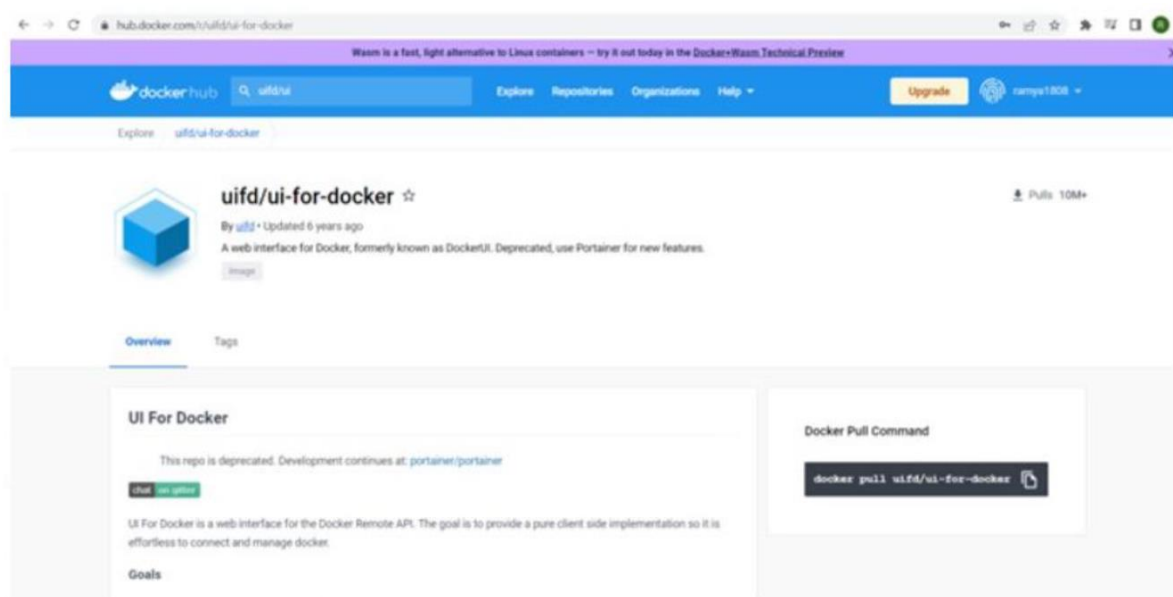


ASSIGNMENT-4 DOCKER AND KUBERNETES

QUESTION 1:

PULL AN IMAGE FROM DOCKER HUB AND RUN IT IN DOCKER PLAYGROUND



labs play-with-docker.com/p/cdj2c363tccg008jltk0#cdj2c363_cdj2cm63tccg008jltk0

03:45:35

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8
node1

cdj2c363_cdj2cm63tccg008jltk0

IP
192.168.0.8

OPEN PORT

Memory
1.44% (57.59MiB / 3.906GiB)

CPU
0.11%

SSH
ssh ip172-18-0-23-cdj2c363tccg008jltfg@direct.labs.play-wi

DELETE EDITOR

```
# The FWD Team.
#####
[node1] (local) root@192.168.0.8 ~
$ docker version --help

Usage: docker version [OPTIONS]

Show the Docker version information

Options:
  -f, --format string      Format the output using the given Go template
  --kubeconfig string      Kubernetes config file
[node1] (local) root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd6c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
Docker.io/uifd/ui-for-docker:latest
```

03:40:04

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8
node1

cdj2c363_cdj2cm63tccg008jltk0

IP
192.168.0.8

OPEN PORT
9000

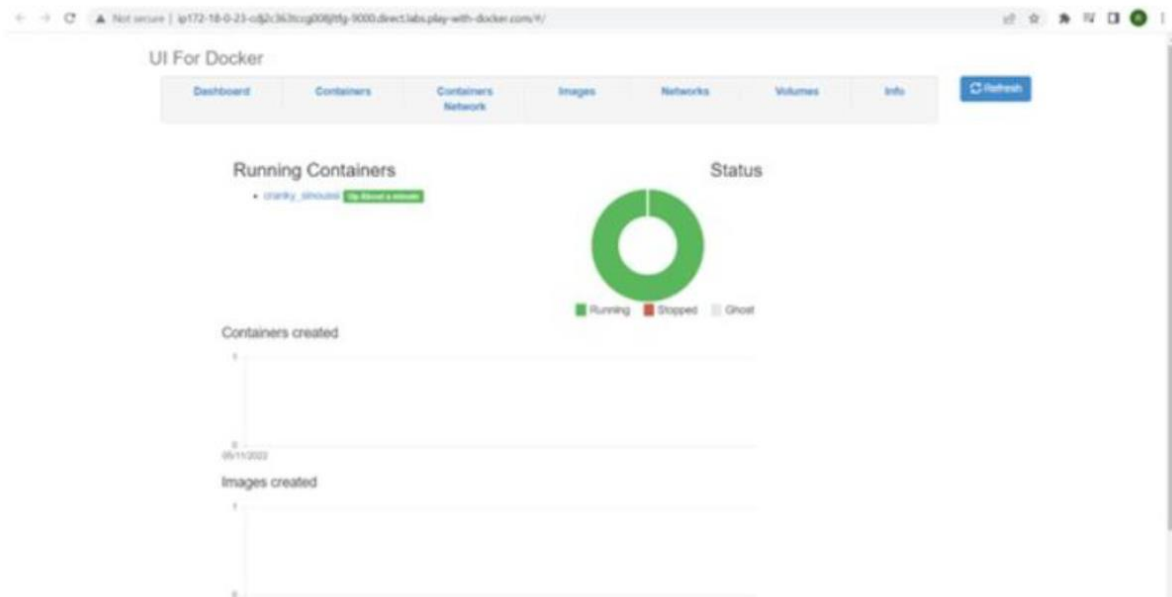
Memory
1.64% (65.67MiB / 3.906GiB)

CPU
0.06%

SSH
ssh ip172-18-0-23-cdj2c363tccg008jltfg@direct.labs.play-wi

DELETE EDITOR

```
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
2a40bda08143b46166827ec45e909d43b425850bc475b7e7c8be8a3caf311f
[node1] (local) root@192.168.0.8 ~
$
```

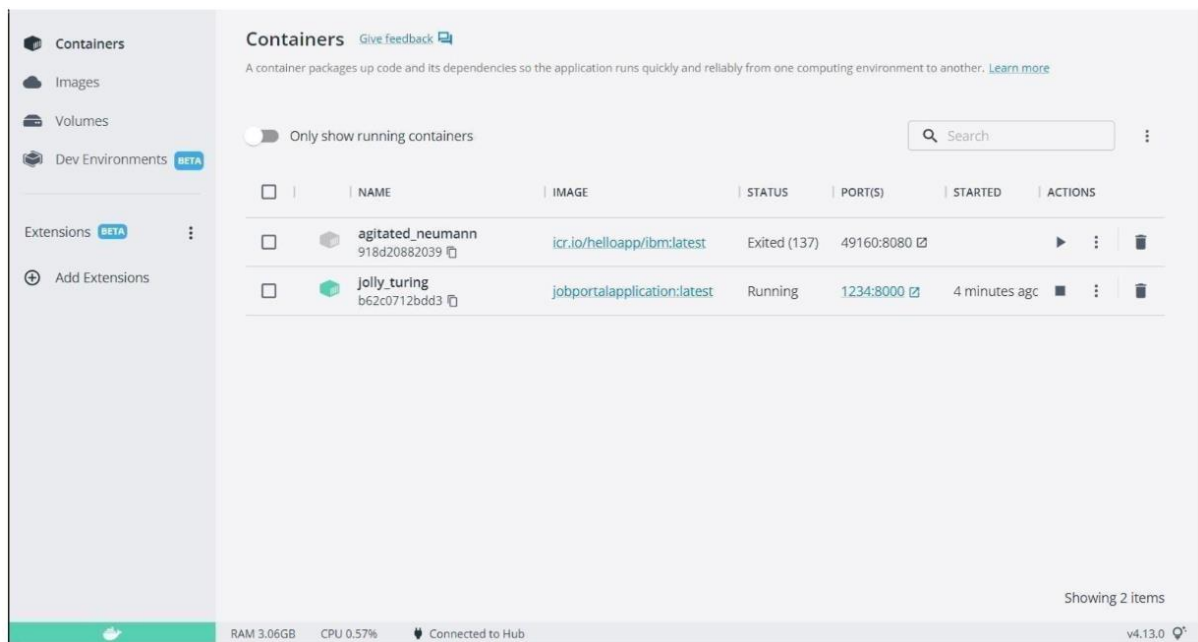


2.CREATE A DOCKER FILE FOR THE JOB PORTAL APPLICATION AND
DEPLOY IT IN DOCKER DESKTOP APPLICATION

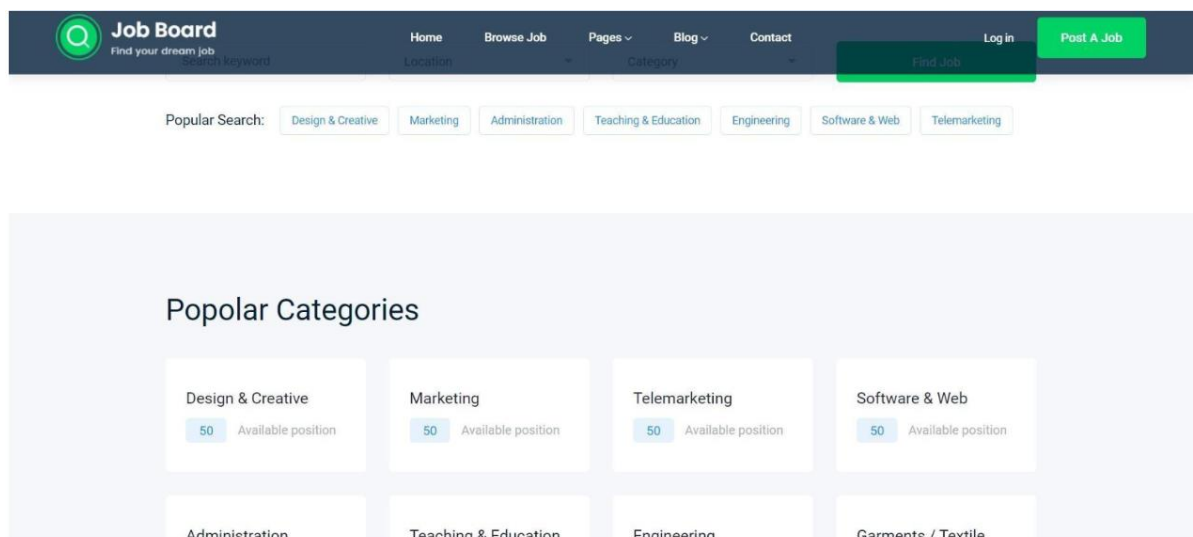
DOCKER FILE:

```
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

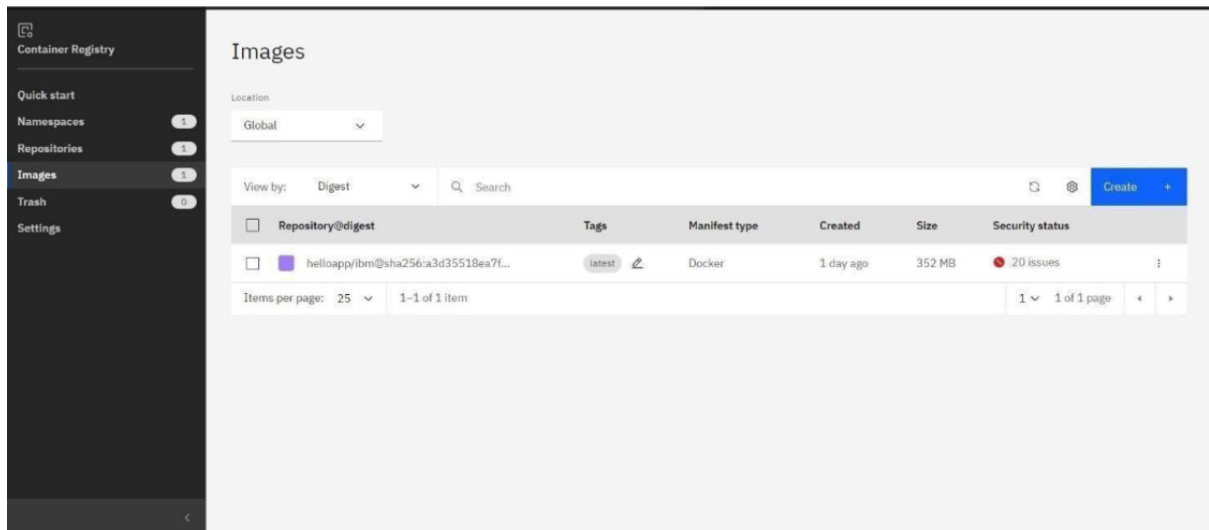
DEPLOYMENT OF JOBPORTAL APPLICATION



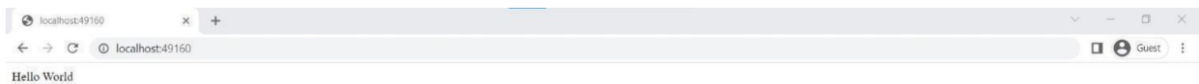
OUTPUT:



3. CREATE A IBM CONTAINER REGISTRY AND DEPLOY HELLOWORLD APP OR JOBPORTAL APP

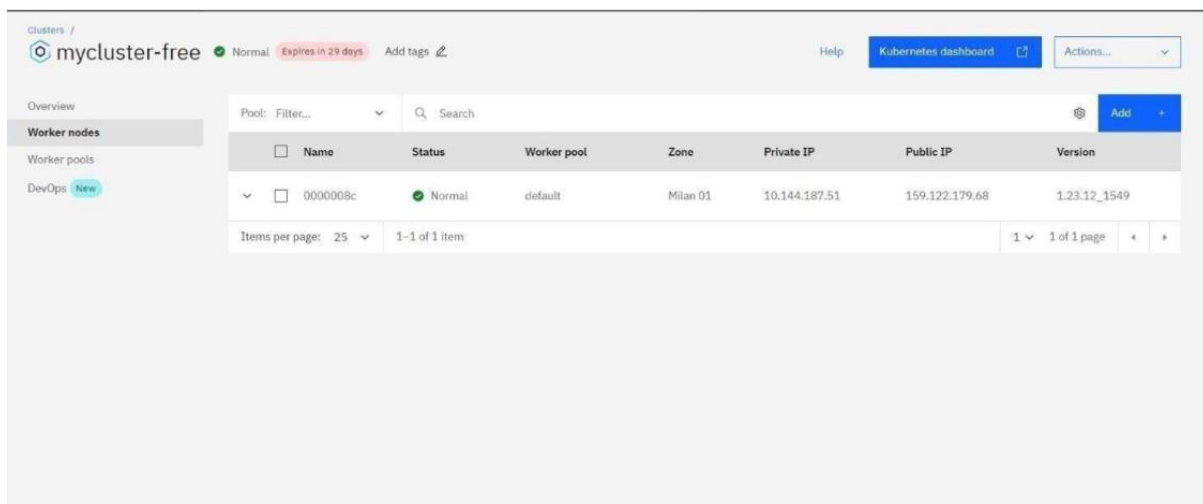


OUTPUT



4.CREATE A KUBERNETES CLUSTER IN IBM CLOUD AND DEPLOY HELLO WORLD IMAGE OR JOB PORTAL IMAGE AND ALSO EXPOSE THE SAME APP TO RUN IN NODE PORT

CREATING A KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSING NODE PORT



OUTPUT:

