ASSIGNMENT 4

Team Leader   : SAJEETH GURU G P
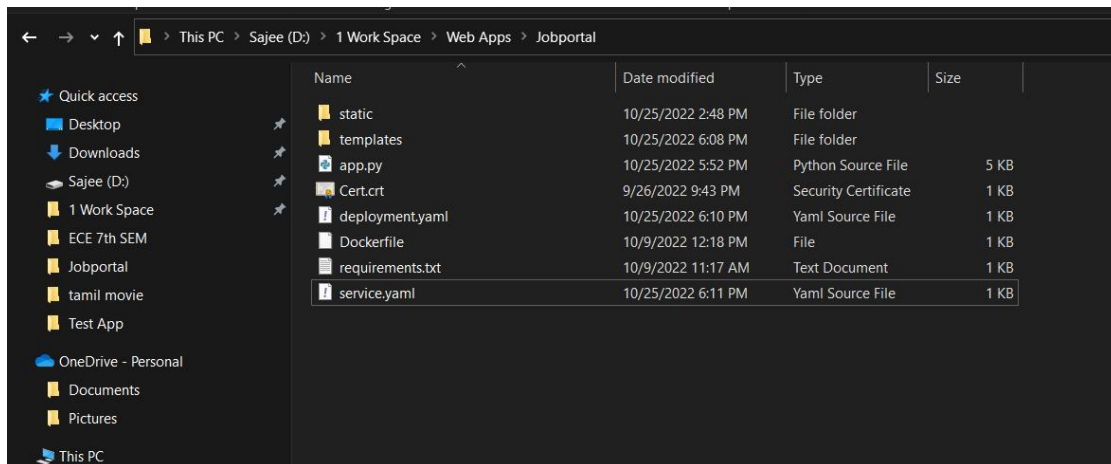
Team Member 1 : MADHAVAN S

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Team Member 3 : SAMSUL GHUDHA A S

1.Create a dockerfile for the jobportal application and deploy it in Docker desktop application.

=>Jobportal Working directory:

=>Dockerfile:


```
FROM python:3.6
WORKDIR /app
ADD . /app
COPY Templates /app/templates
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python","app.py"]
```

=>Deploy jobportal application to docker desktop:

=>running the image from docker desktop:

2.Pull an Image from docker hub and run it in docker playground.

=>Pushing image to docker hub

=>Pulling the jobportal image from docker hub in docker playground:
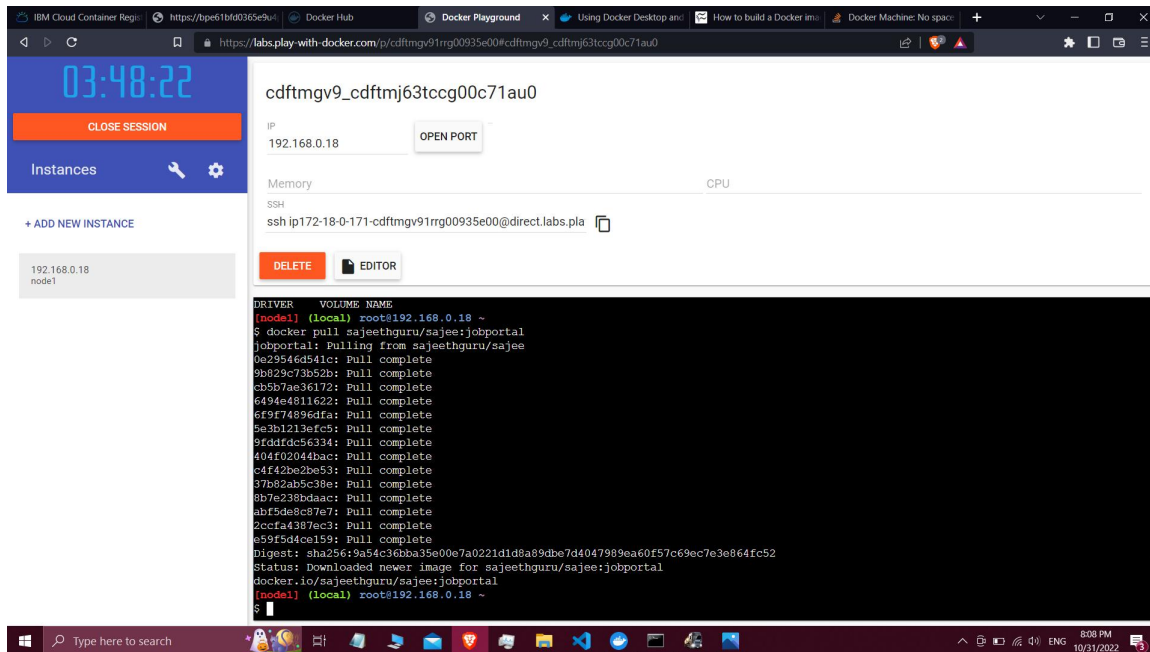
=> Running the pulled image:
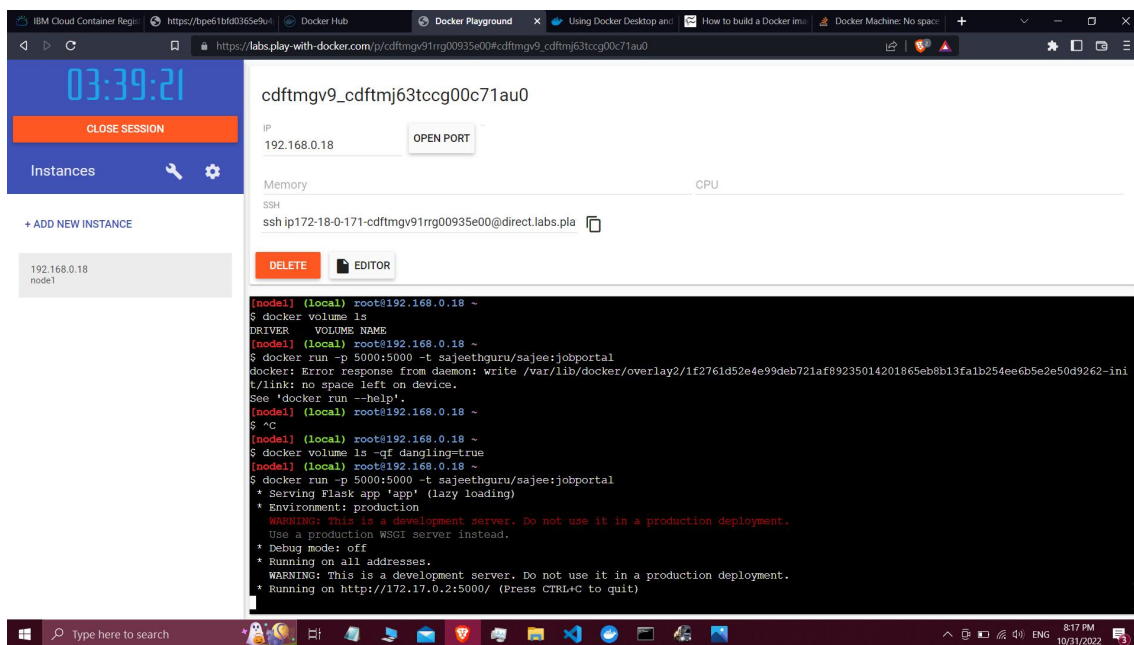
OPEN PORT

Memory

CPU

SSH

ssh ip172-18-0-171-cdftmgv91rrg00935e00@direct.labs.pla

DELETE   EDITOR

```
$ docker run -p 5000:5000 -t sajeethguru/sajee:jobportal
 * Serving Flask app 'app' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.18.0.1 - - [31/Oct/2022 14:48:04] "GET / HTTP/1.1" 200 -
172.18.0.1 - - [31/Oct/2022 14:48:04] "GET /css/style.css HTTP/1.1" 404 -
172.18.0.1 - - [31/Oct/2022 14:48:05] "GET /static/img/smartinternz.png HTTP/1.1" 404
172.18.0.1 - - [31/Oct/2022 14:48:14] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404
172.18.0.1 - - [31/Oct/2022 14:48:38] "GET /login HTTP/1.1" 200 -
172.18.0.1 - - [31/Oct/2022 14:48:39] "GET /css/style.css HTTP/1.1" 404 -
172.18.0.1 - - [31/Oct/2022 14:48:40] "GET /static/img/smartinternz.png HTTP/1.1" 404
{'USERNAME': 'maddy', 'EMAIL': 'maddy@gmail.com', 'PASSWORD': 'mk'}
172.18.0.1 - - [31/Oct/2022 14:48:56] "POST /login HTTP/1.1" 200 -
172.18.0.1 - - [31/Oct/2022 14:48:57] "GET /css/style.css HTTP/1.1" 404 -
172.18.0.1 - - [31/Oct/2022 14:48:59] "GET /static/img/smartinternz.png HTTP/1.1" 404
172.18.0.1 - - [31/Oct/2022 14:49:07] "GET /logout HTTP/1.1" 200 -
172.18.0.1 - - [31/Oct/2022 14:49:07] "GET /css/style.css HTTP/1.1" 404 -
172.18.0.1 - - [31/Oct/2022 14:49:09] "GET /static/img/smartinternz.png HTTP/1.1" 404
```

sheep-logo

LOGIN   REGISTER   CONTACT US

Aboutus

Mission

JOBPORTAL is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .

Vission

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. Jobportal offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed

3.Create a IBM Container Registry and deploy jobportal app:

=>Pushing image to Container registry:

```
Administrator: C:\Windows\System32\cmd.exe

The push refers to repository [au.icr.io/sajeeth/jobportal]
be54ef4e97eb: Layer already exists
3de59cda81ee: Layer already exists
cf207e865158: Layer already exists
afe94017dff3: Layer already exists
bb49da2eeef9: Layer already exists
aa4c808c19f6: Layer already exists
8ba9f690e8ba: Layer already exists
3e607d59ef9f: Layer already exists
1e18e7e1fcc2: Layer already exists
c3a0d593ed24: Pushed
26a504e63be4: Retrying in 1 second
8bf42db0de72: Layer already exists
31892cc314cb: Layer already exists
11936051f93b: Pushing [==================================================>]  123.9MB/123.9MB
net/http: TLS handshake timeout

D:\1 Work Space\Web Apps\Jobportal>docker push au.icr.io/sajeeth/jobportal
Using default tag: latest
The push refers to repository [au.icr.io/sajeeth/jobportal]
be54ef4e97eb: Layer already exists
3de59cda81ee: Layer already exists
cf207e865158: Layer already exists
afe94017dff3: Layer already exists
bb49da2eeef9: Layer already exists
aa4c808c19f6: Layer already exists
8ba9f690e8ba: Layer already exists
3e607d59ef9f: Layer already exists
1e18e7e1fcc2: Layer already exists
c3a0d593ed24: Layer already exists
26a504e63be4: Pushed
8bf42db0de72: Layer already exists
31892cc314cb: Layer already exists
11936051f93b: Pushed
latest: digest: sha256:9a54c36bba35e00e7a0221d1d8a89dbe7d4047989ea60f57c69ec7e3e864fc52 size: 3262

D:\1 Work Space\Web Apps\Jobportal>docker cr images
docker: 'cr' is not a docker command.
See 'docker --help'

D:\1 Work Space\Web Apps\Jobportal>ibmcloud cr image-list
Listing images...

Repository                    Tag      Digest          Namespace   Created       Size      Security status
au.icr.io/sajeeth/jobportal   latest   9a54c36bba35    sajeeth     4 days ago    435 MB    -
au.icr.io/sajeeth/loginapp    latest   a7f272edbfdd    sajeeth     3 weeks ago   435 MB    -

OK

D:\1 Work Space\Web Apps\Jobportal>
```

4.Create a Kubernetes cluster in IBM cloud and deploy jobportal image and also expose the same app to run in nodeportal:

=> deploying and exposing jobportal image into kubernetes cluster:

=>Running the app in nodeport: