ASSIGNMENT 4

Assignment Date	29 th October 2022
Student Name	Sarayu Miththira V C
Student Roll No.	197243
Maximum Marks	2 Marks

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

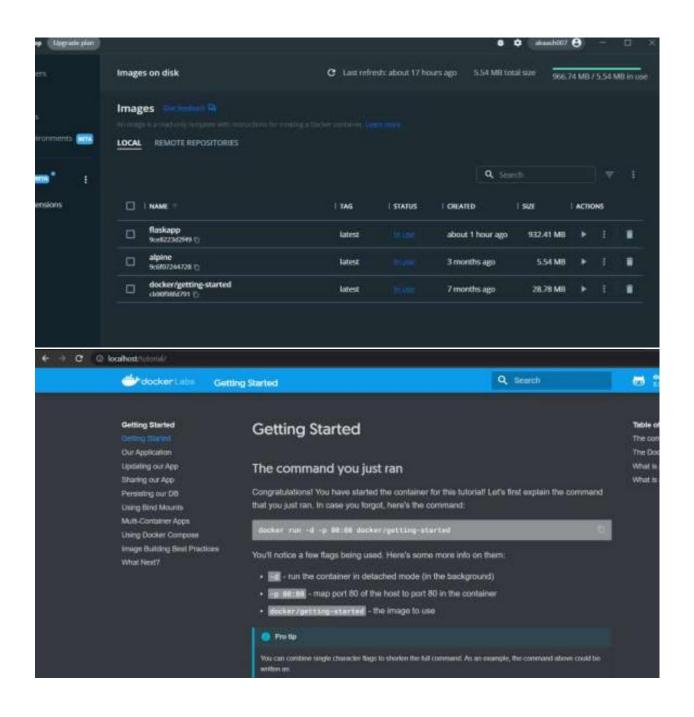
Pulling image from docker hub -

```
N PowerShell
Loading personal and system profiles took 541ms.
- assignment 4 git:(main) docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867cba5fcbd: Pull complete
4b639e65cb3b: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
docker.io/docker/getting-started:latest
→ assignment 4 git:(main)
```

Running on docker playground -

```
Digest: sha256:b558be87416947lbd4e65bd6eac8c303b27la7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
docker.io/docker/getting-started:latest

assignment 4 git:(main) docker run -d -p 80:80 docker/getting-started
ee6d34bd49e20106c8d3a3cc85bab0bde9c96a667bb3112bc896358efd6d2f68
assignment 4 git:(main) D
```



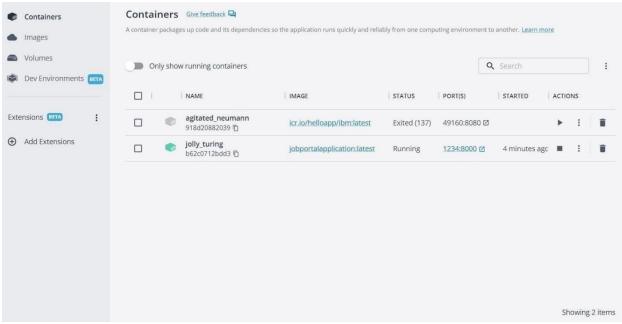
2. Create a docker file for the job portal application and deploy it in docker application.

Docker file -

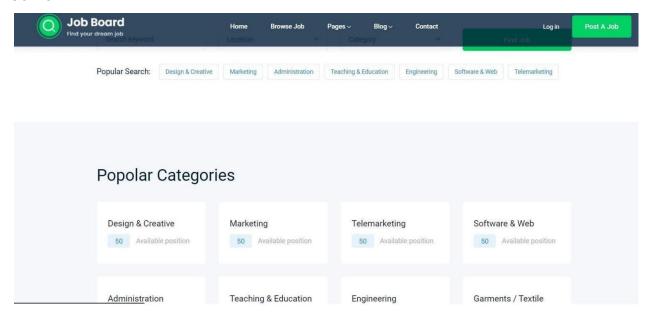
```
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

Deployment in docker application –



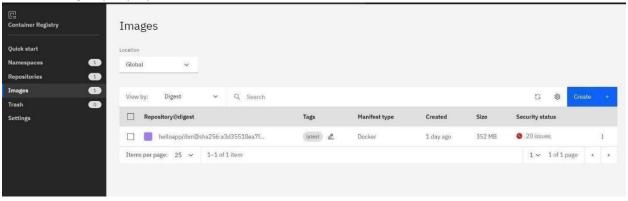


OUTPUT -



3. Create a IBM container registry and deploy hello-world app or job portal app.

Container registry deployment -

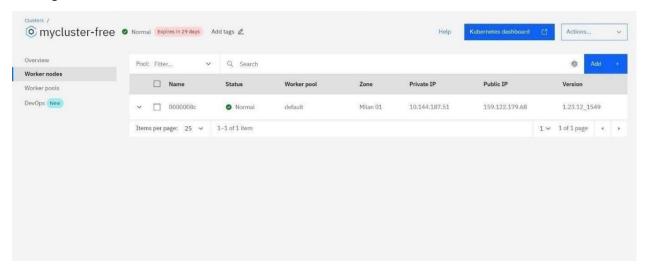


OUTPUT -

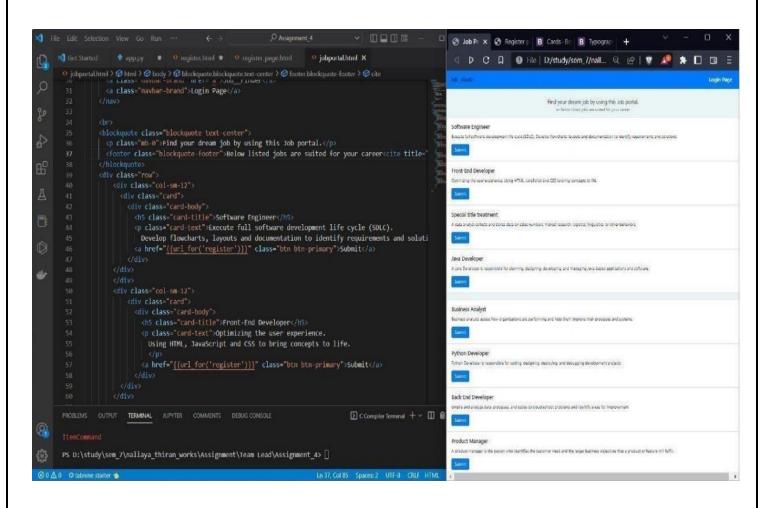


4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud -



OUTPUT -



Exposing the same app to run in node port –

C:\Windows\System32\cmd.exe

```
Continuously tending contents of the contents
```