Assignment -4

Assignment Date	15 October 2022
Student Name	KARTHIKEYAN B (TL)
Student Roll Number	211419104125
Maximum Marks	2 Marks

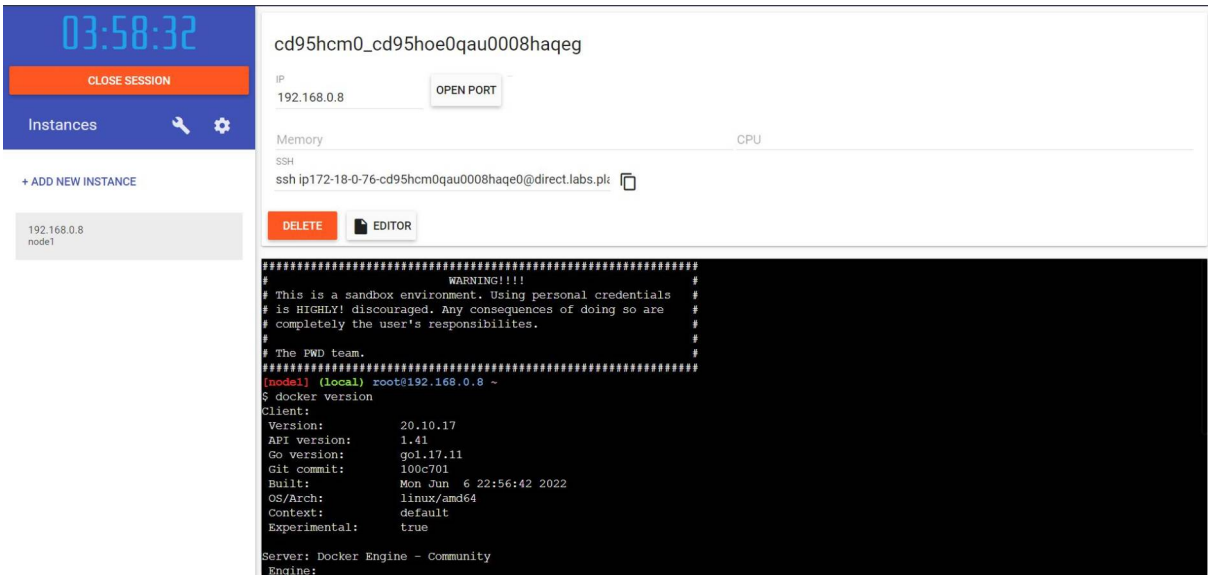
Question 1

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

Solution:

Step-1: go-to labs.play-with-docker.com

Step-2: Login using docker hub account & create new instance



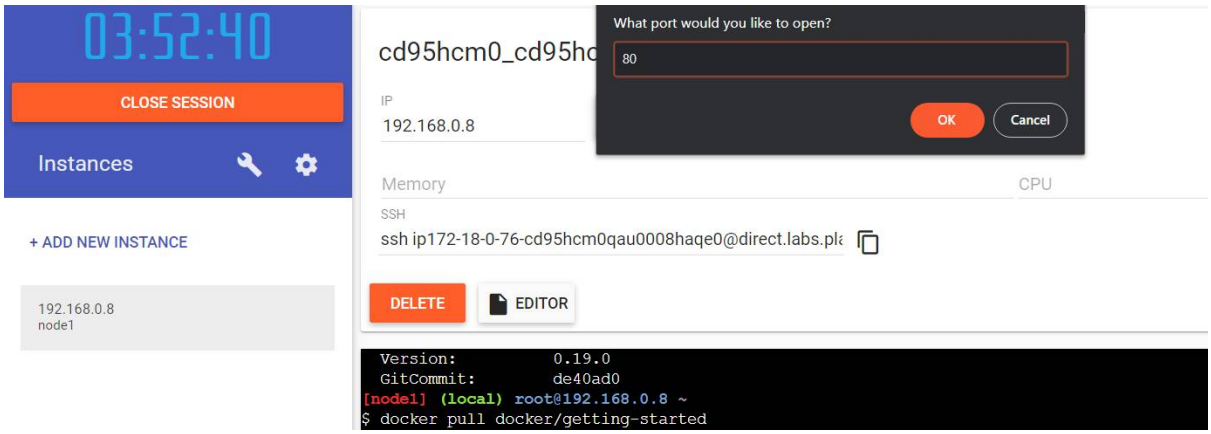
Step-3: pull docker/getting-started from docker hub using `` docker pull docker/getting-started ``

```
[node1] (local) root@192.168.0.8 ~
$ 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
```

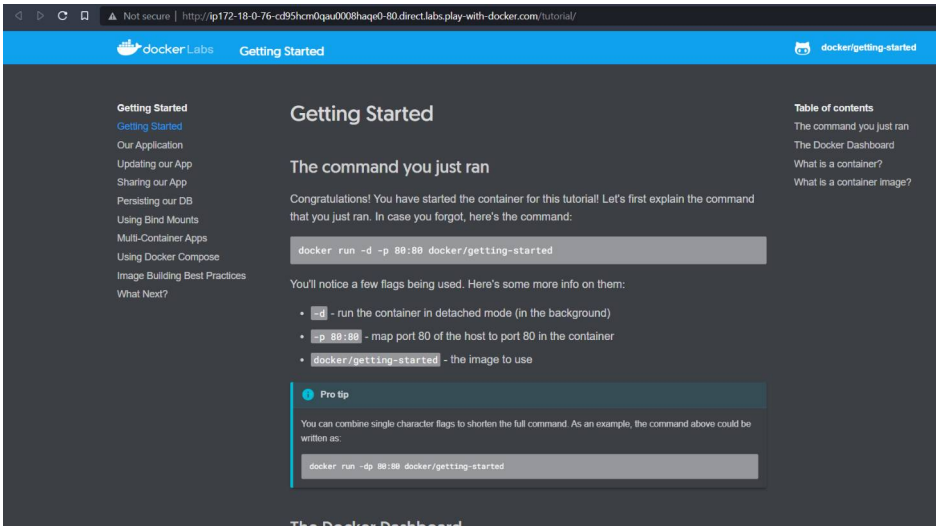
Step-4: run docker/getting-started using ``docker run -d -p 80:80 docker/getting-started ``

```
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 80:80 docker/getting-started
e72f4f210616fb8853e62e2f789a96a4fdbf46954df3e14e000aced037e6a6ed
[node1] (local) root@192.168.0.8 ~
$
```

Step-5: open the port



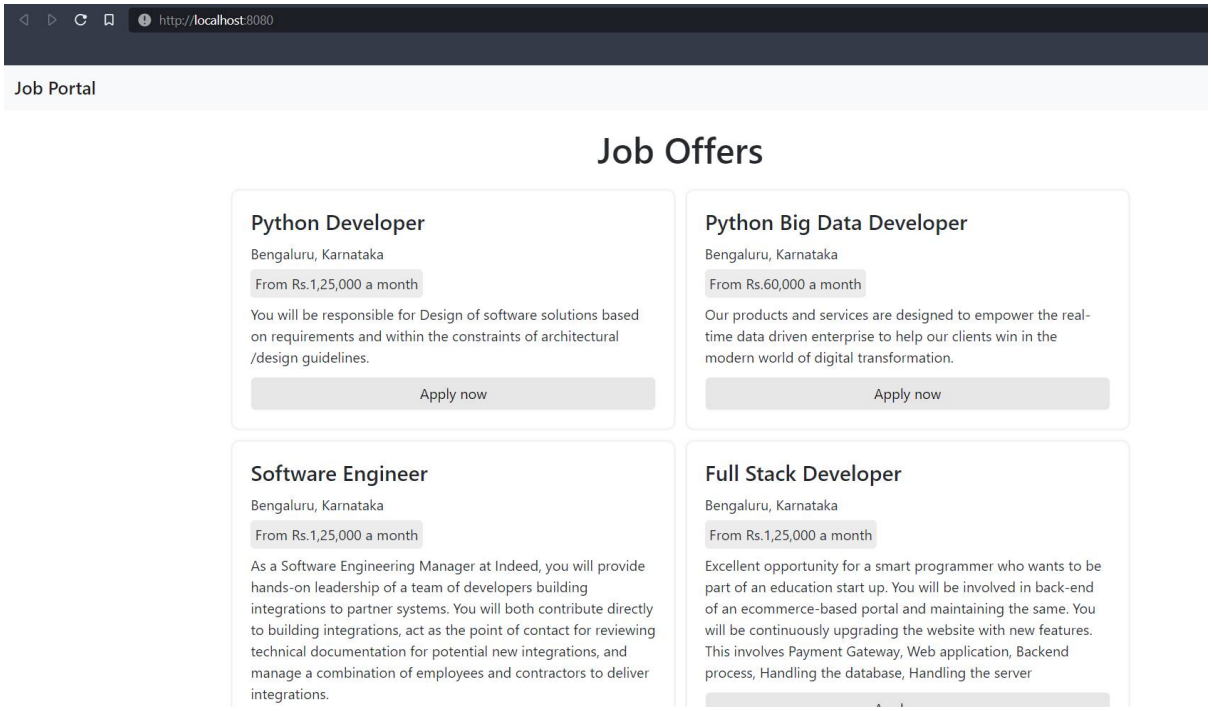
Output:



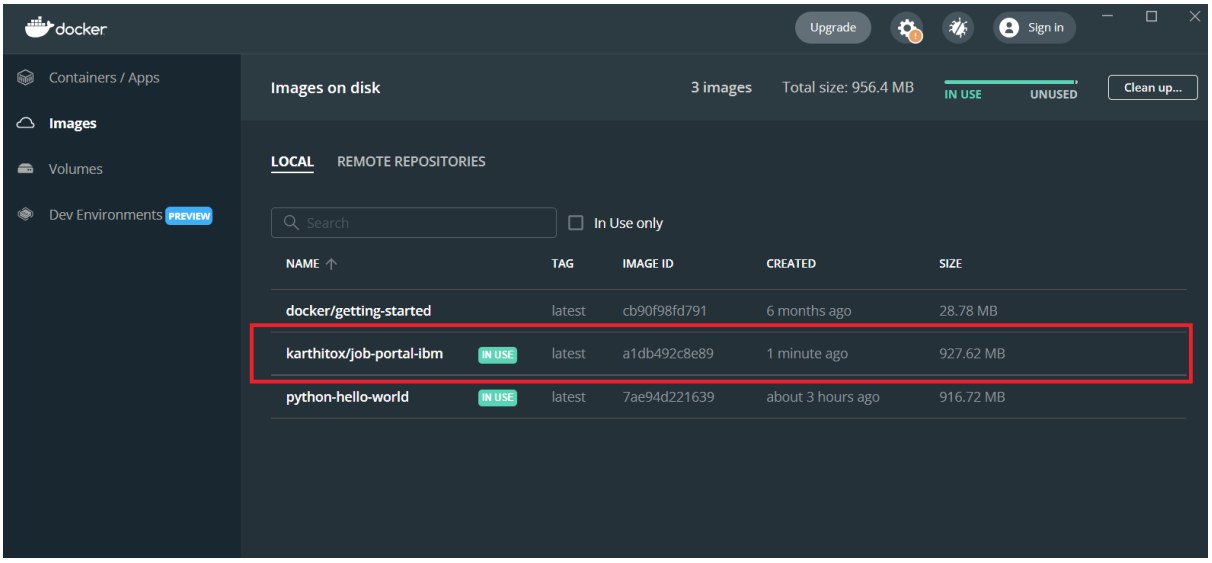
Question 2

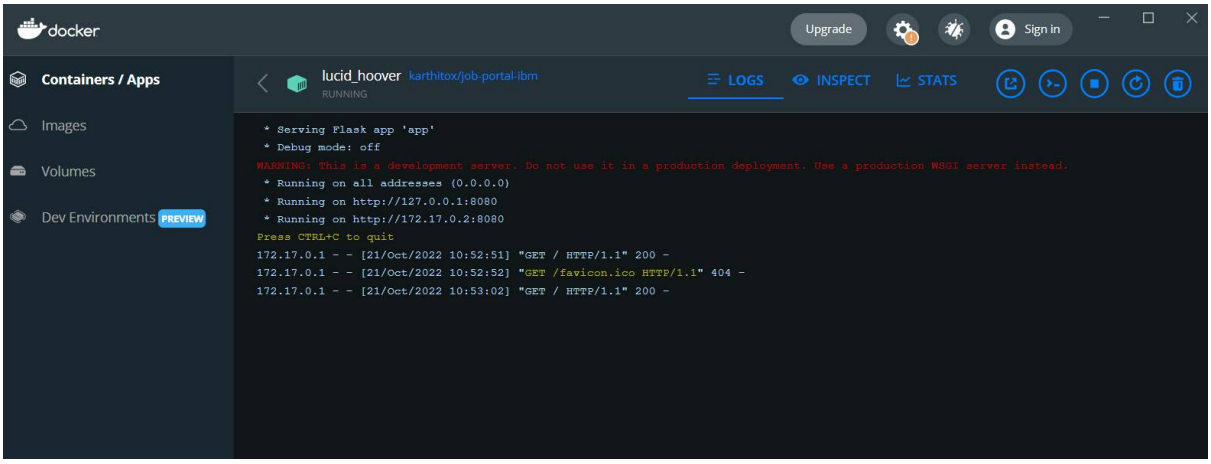
Create a docker file for the jobportal application and deploy it in Docker desktop application.

App:



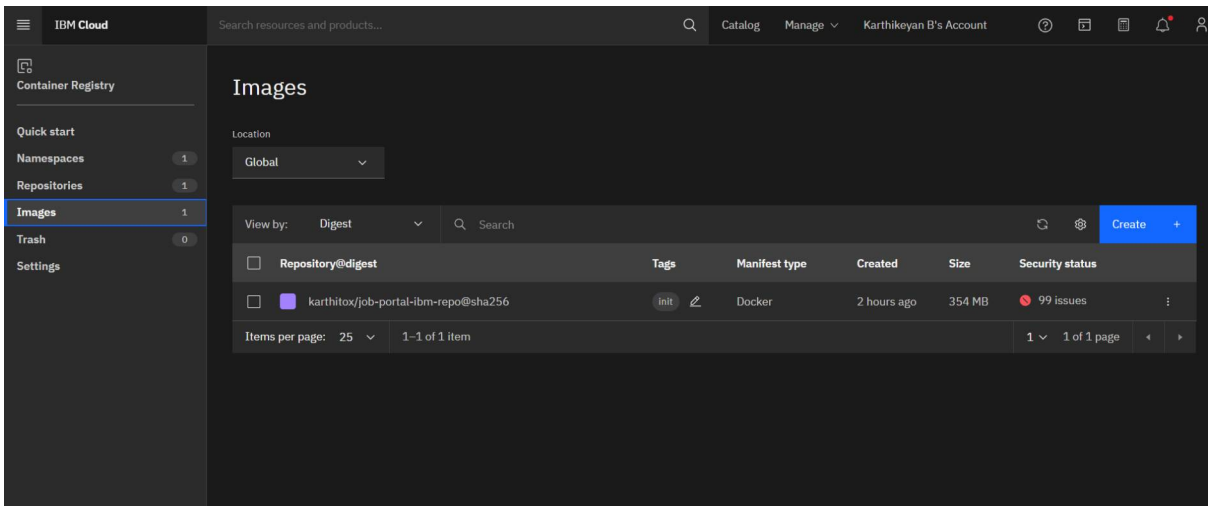
locally hosted an image:





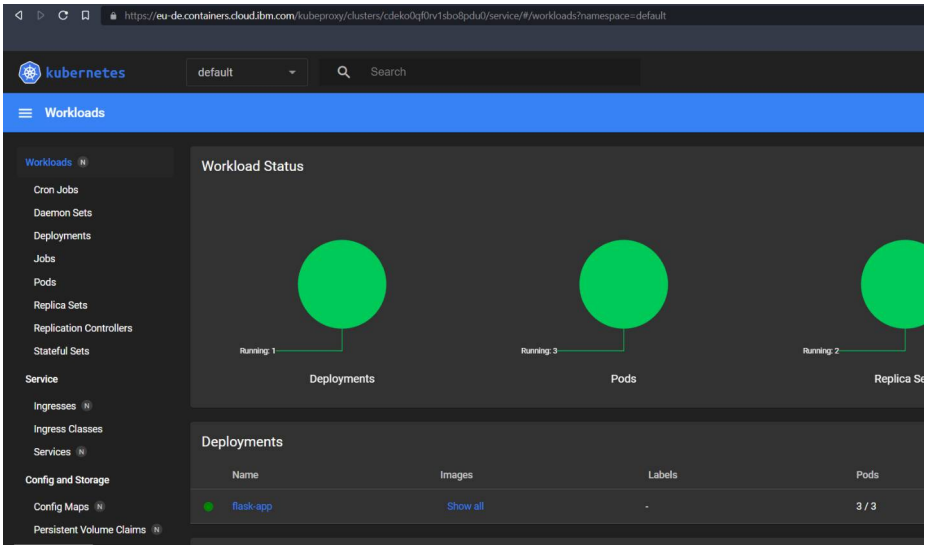
Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.



Final output: