## Assignment -4

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

## Question 1

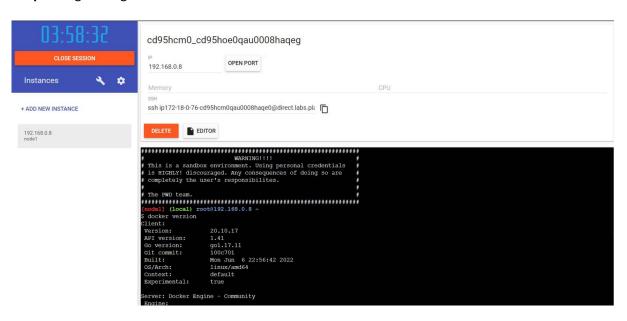
Pull an Image from docker hub and run it in docker playground.

#### **Solution:**

**Step-1:** go-to <u>labs.play-with-docker.com</u>



**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
06led9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
docker.io/docker/getting-started:latest
```

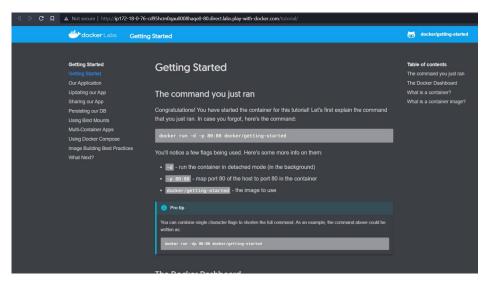
Step-4: run docker/getting-started using ``docker run -d -p 80:80 docker/getting-started ``

```
[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



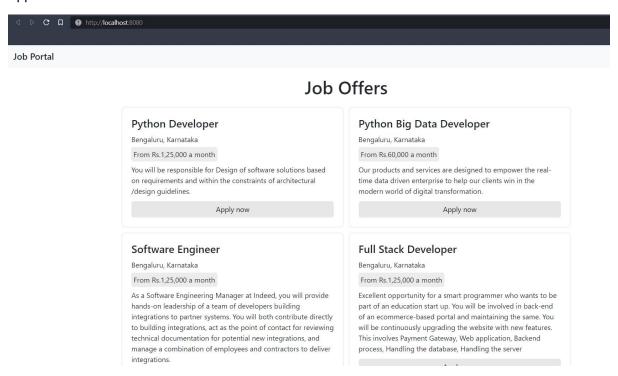
## **Output:**



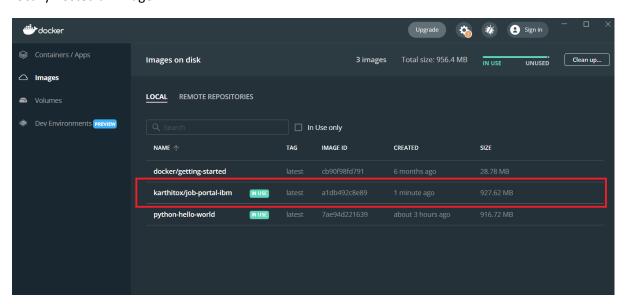
#### Question 2

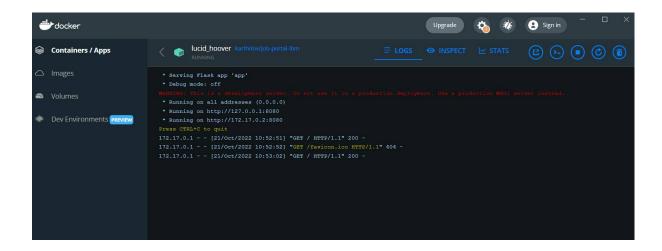
Create a docker file for the jobportal application and deploy it in Docker desktop application.

## App:



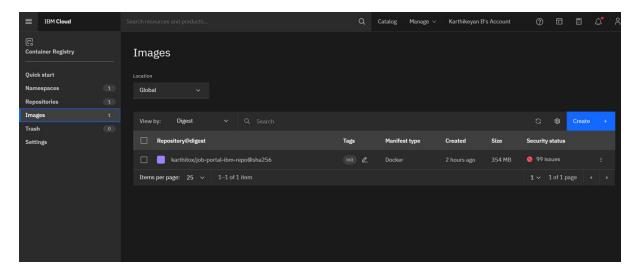
## locally hosted an image:





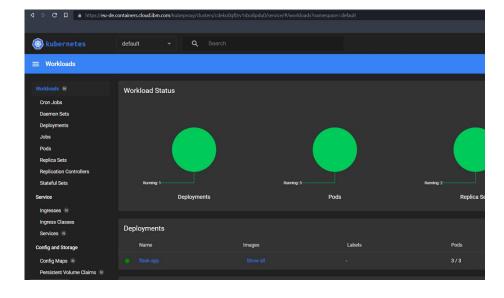
## Question 3:

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

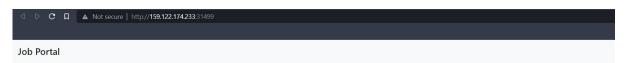


## Question 4:

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:**



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