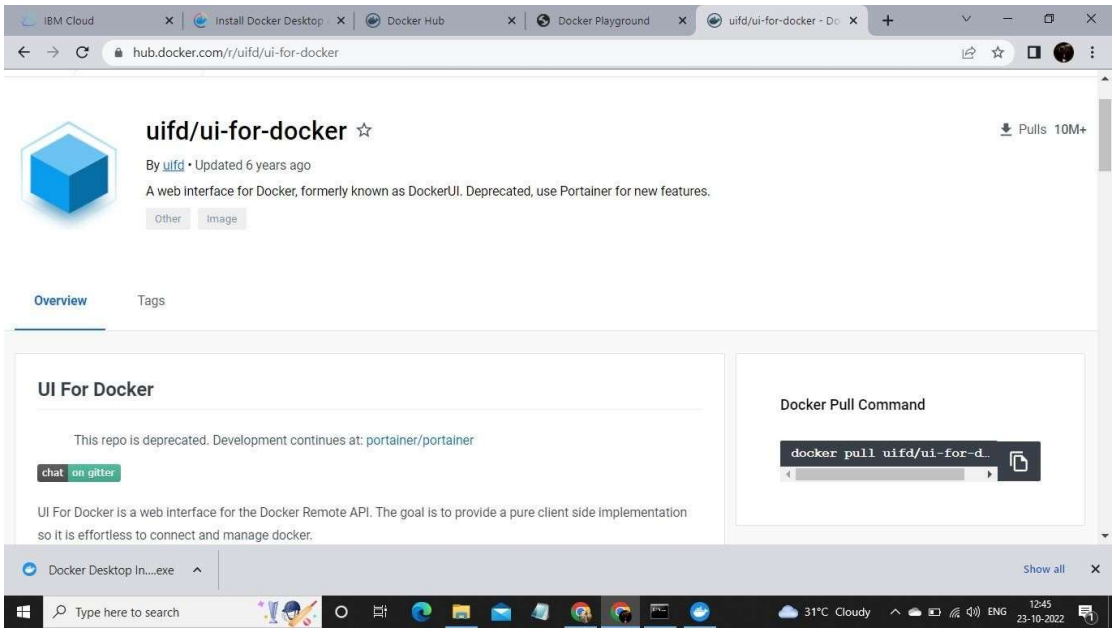
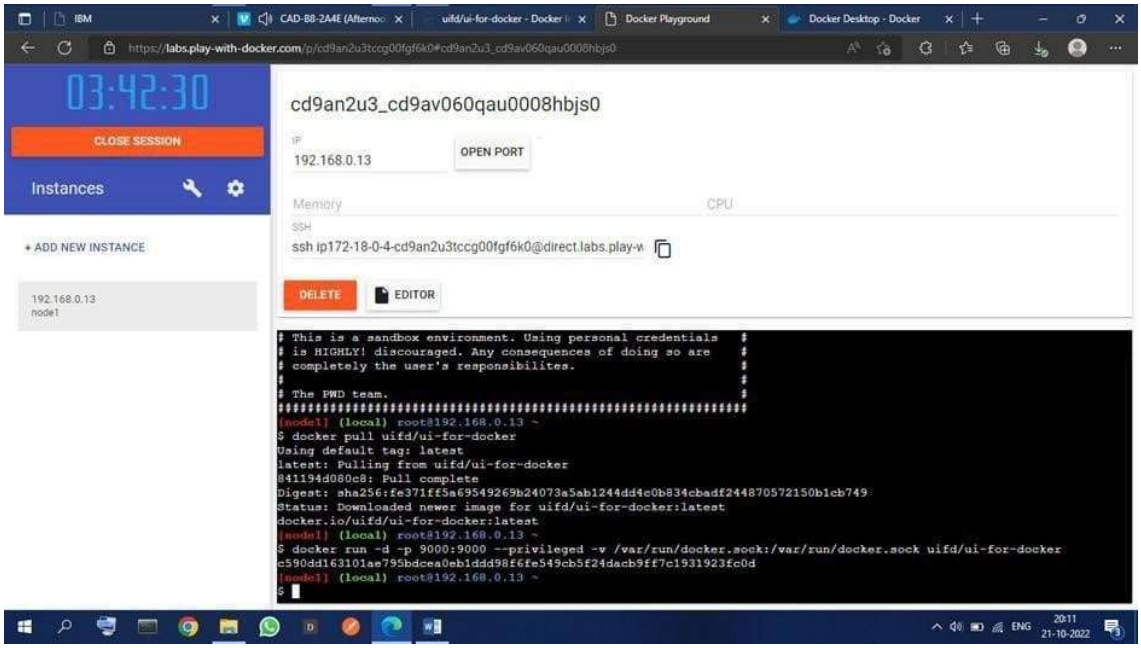
Assignment – 4
DOCKER AND KUBERNETES

Assignment Date	21 October 2022
Student Name	Prasanna Kumar E
Student Roll Number	319UEC067
Team ID	PNT2022TMID17475
Maximum Marks	2 Marks

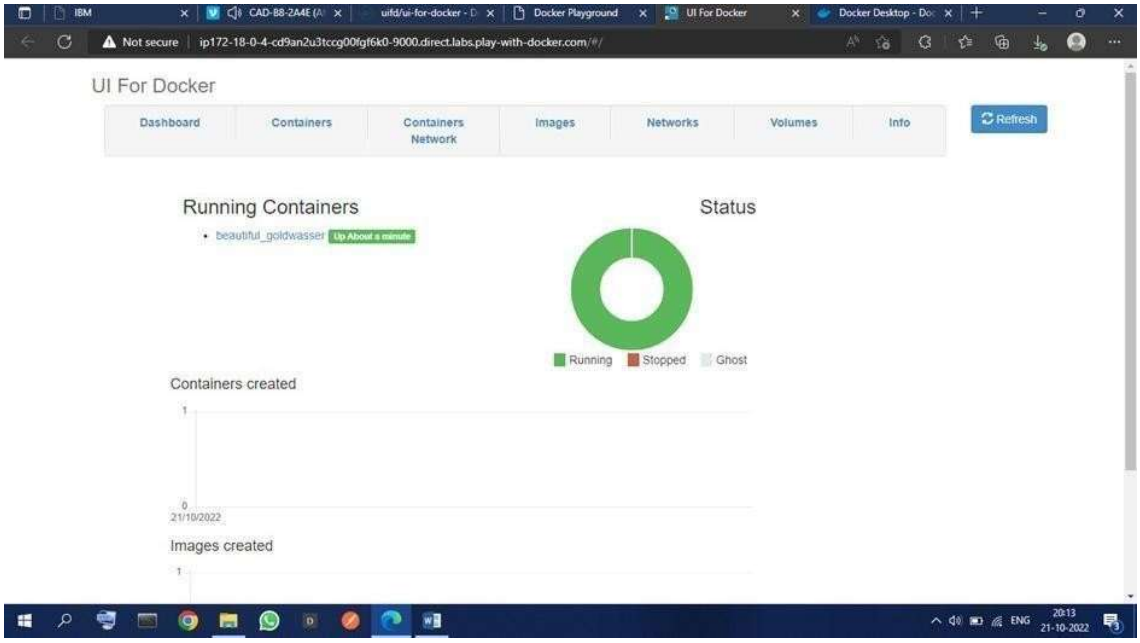
Question 1:

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



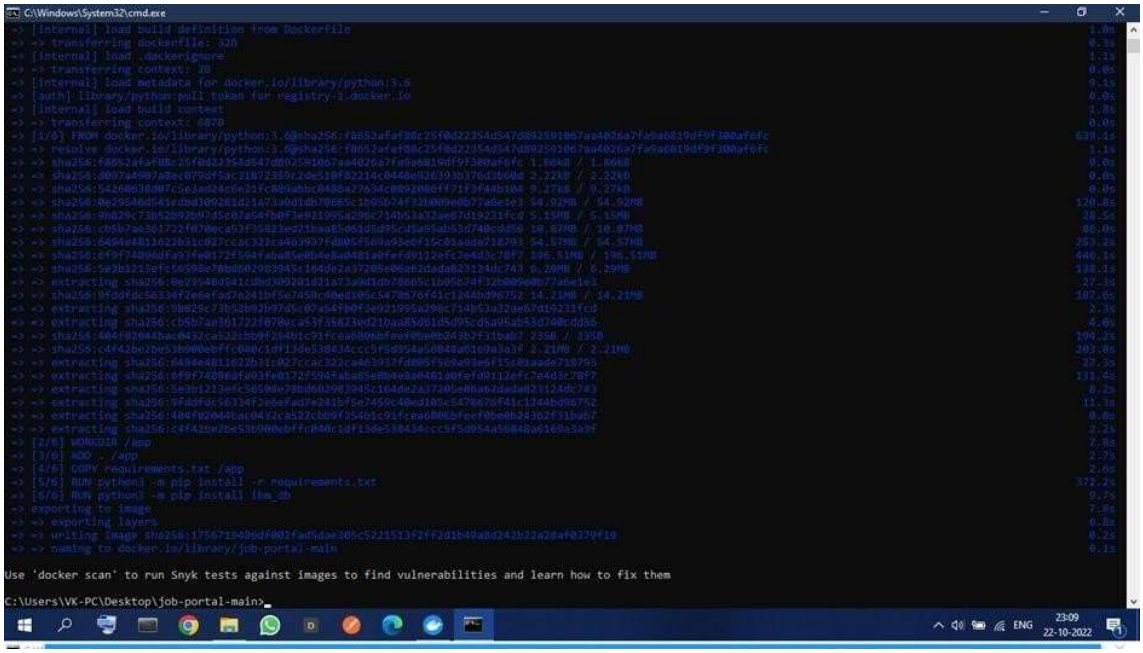


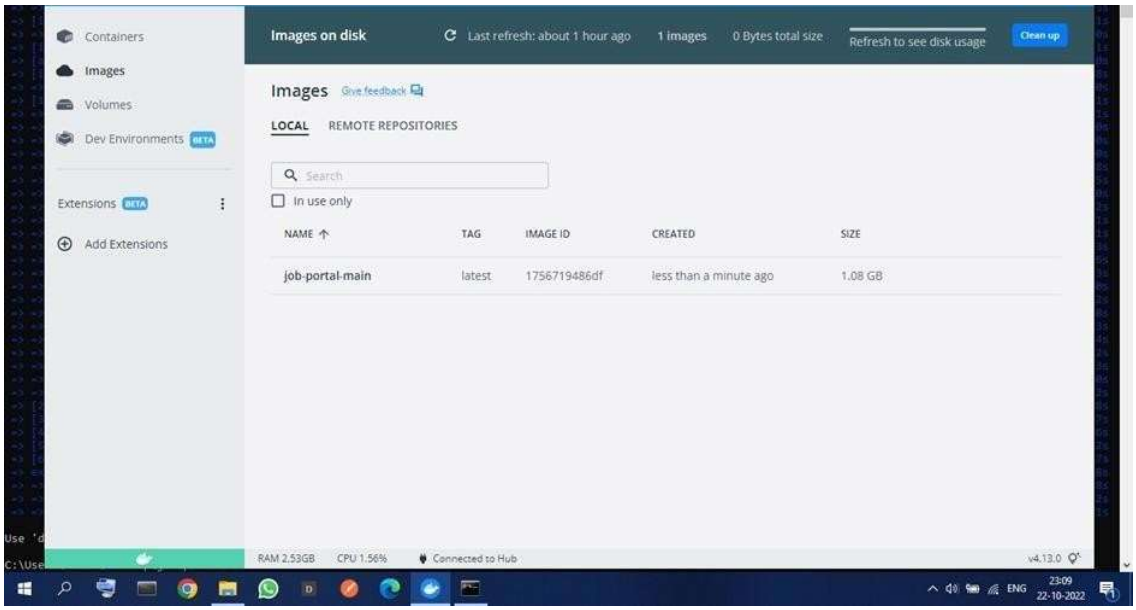

IBM
CAD-88-2A4E (A
uifd/ui-for-docker - D
Docker Playground
UI For Docker
Docker Desktop - Doc
Not secure
ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/
UI For Docker
Dashboard
Containers
Containers Network
Images
Networks
Volumes
Info
Refresh
UI For Docker
The UI for Docker container engine
Learn more.
Running Containers
beautiful_goldwasser
Up About a minute
Status
ENG
20:13
21-10-2022


IBM
CAD-88-2A4E (A
uifd/ui-for-docker - D
Docker Playground
UI For Docker
Docker Desktop - Doc
Not secure
ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/
UI For Docker
Dashboard
Containers
Containers Network
Images
Networks
Volumes
Info
Refresh
Running Containers
beautiful_goldwasser
Up About a minute
Status
Running
Stopped
Ghost
Containers created
1
0
21/10/2022
Images created
1
ENG
20:13
21-10-2022

Question 2:

Create a docker file for the job portal application and deploy it in Docker Desktop Application





Question 3:

Create an IBM container registry and deploy helloworld app or Job portal app.

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image orjob portal image and also expose the same app to run in node port.