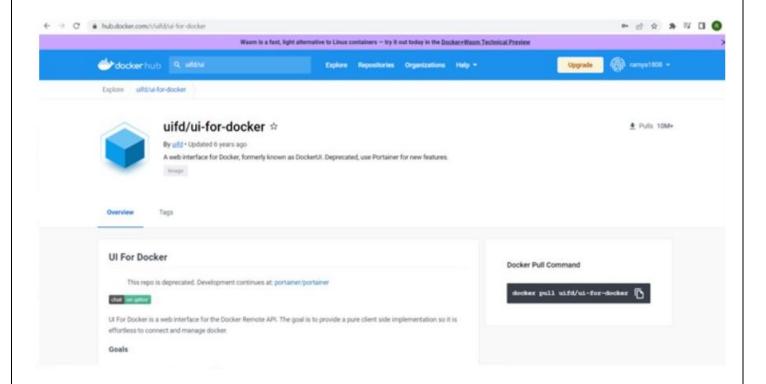
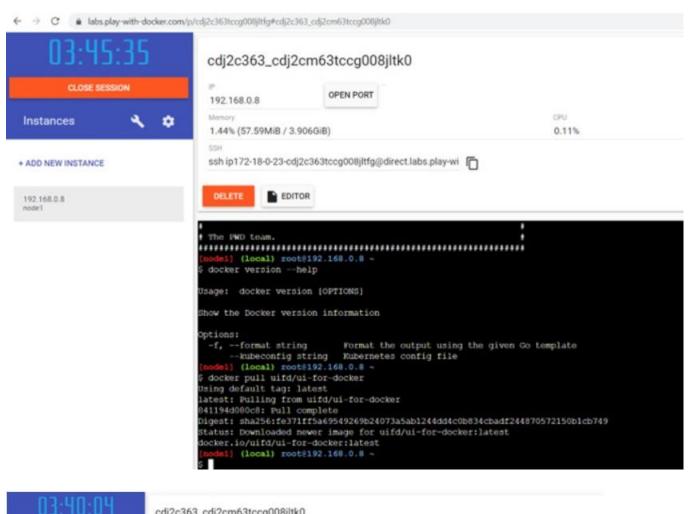
# **Assignment 4 – Docker and Kubernetes**

Assignment Date	2 November 2022
Student Name	Nithinrhaj S
Student Roll Number	2019115062
Maximum Marks	2 Marks

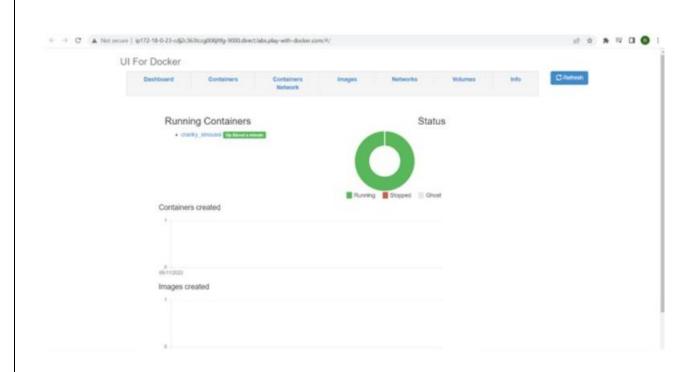
# **Question 1:**

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









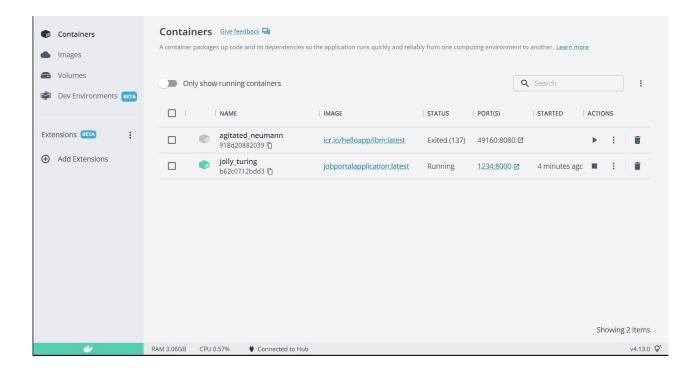
### Question 2:

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

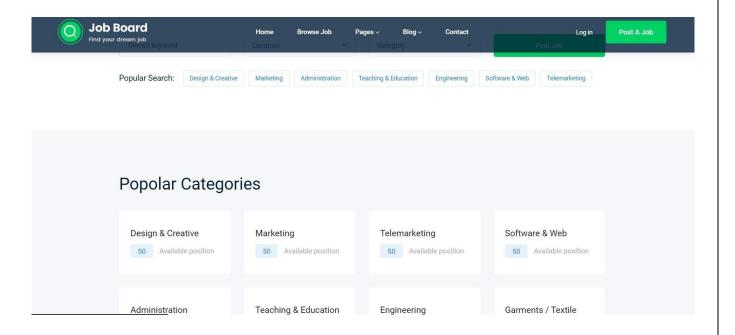
#### DOCKER FILE:

```
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 OF JOBPORTAL APPLICATION:

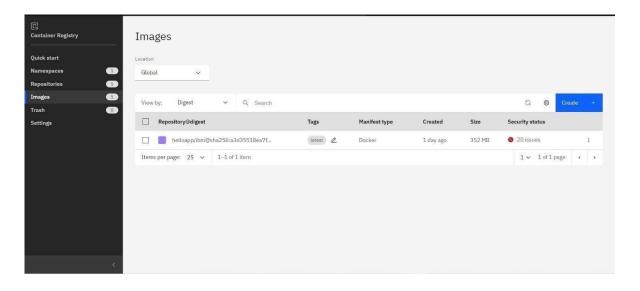


**OUTPUT:** 



### Question 3:

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



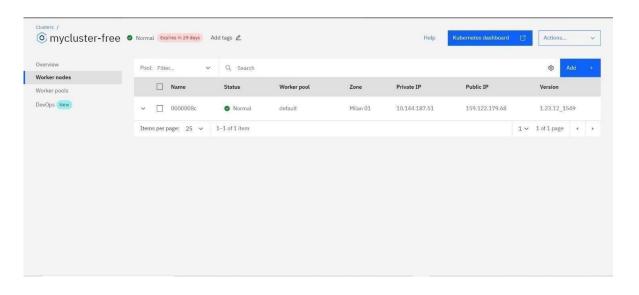
### **OUTPUT:**



### Question 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 and exposing node port:



#### Output:

