**Assignment 4** 

Assignment date	25 october 2022
Student name	SUJITHRA .J
Student roll no	211419104272
Maximum Marks	2 Marks

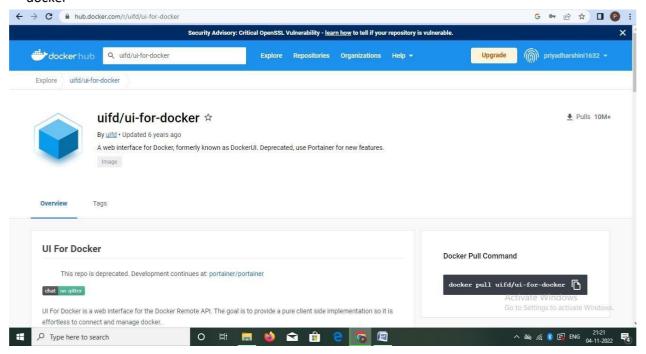
# Question 1:

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

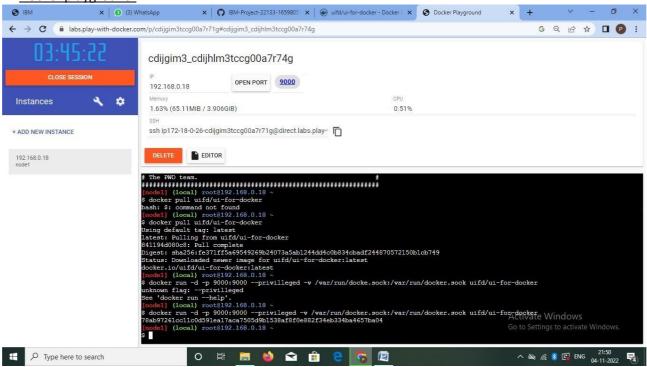
# **Solution 1:**

docker pull uifd/ui-for-docker

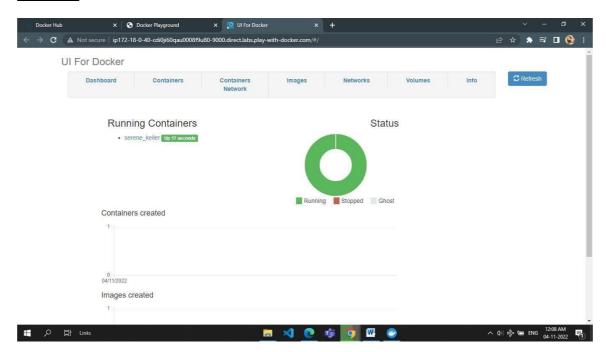
 $docker\ run\ -d\ -p\ 9000:9000\ --privileged\ -v\ /var/run/docker.sock:/var/run/docker.sock\ uifd/ui-fordocker$ 



**Docker playground:** 



## Docker UI:



# Question 2:

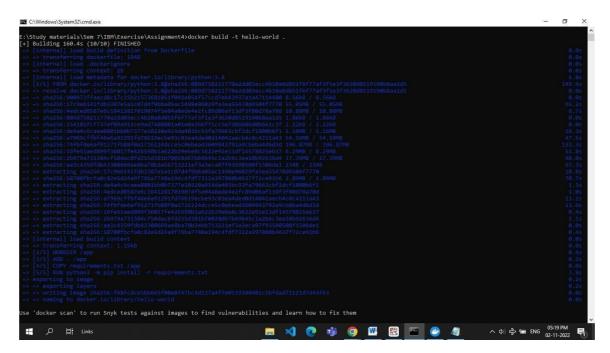
Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

# **Solution 2:**

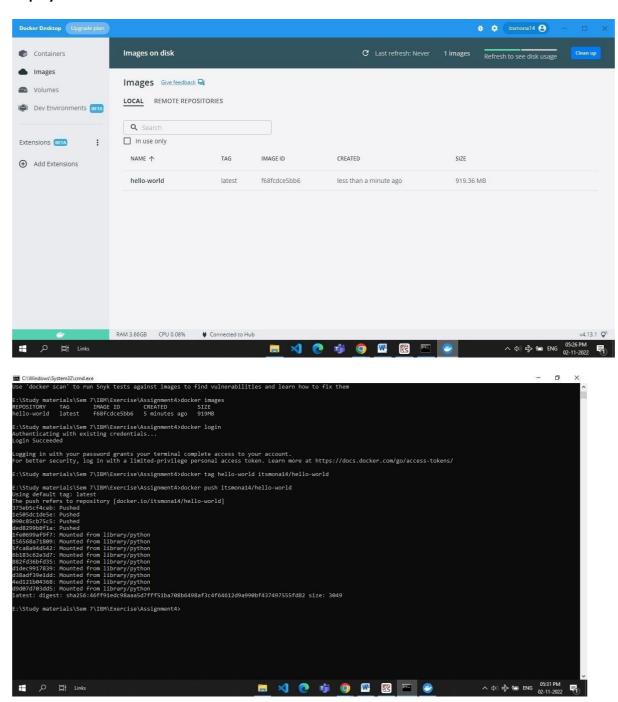
## **DockerFile**

```
Dockerfile - Notepad
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```

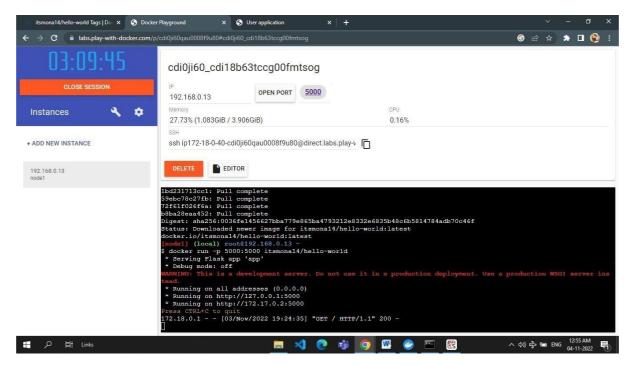
# **Bulid Docker image**



# **Deploy it on Docker hub**



# **Tested it using Docker playground**



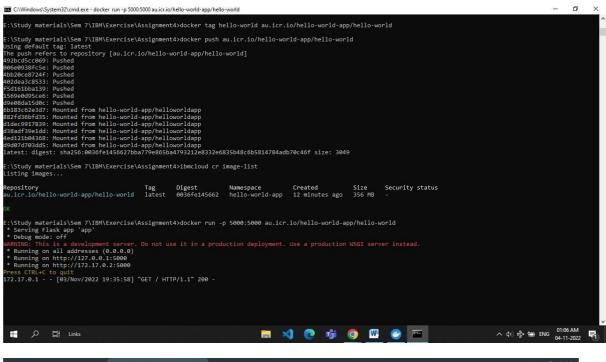
## Question 3:

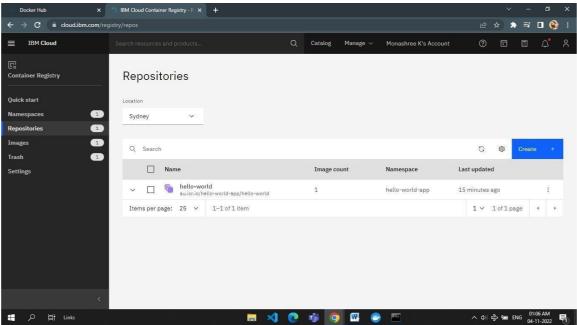
Create an IBM container registry and deploy helloworld app or job portal app.

# Solution 3:

My image link: au.icr.io/hello-world-app/hello-world

```
| C:\Users\Wonashree\Document\Pompt-docker.puthsubciohelo-world-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphelloworld-upphello
```





# 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.

## Solution 4:

https://raw.githubusercontent.com/itsmona14/IBM-Assignment-cloud/main/deployment.yaml

```
apiVersion: v1
kind: Service
metadata:
  name: hello-world-deployment
   ports:
   - port: 5000
    targetPort: 5000
   selector:
    app: hello-world
apiVersion: apps/v1
kind: Deployment
metadata:
  name: hello-world-deployment
spec:
  replicas: 1
   selector:
    matchLabels:
      app: hello-world
   template:
     metadata:
       labels:
         app: hello-world
       containers:
       - name: hello-world
         image: au.icr.io/hello-world-app/hello-world
         imagePullPolicy: Always
         ports:
         - containerPort: 5000
```

