## **ASSIGNMENT 4**

NAME: D.SINDHU

**REGISTER NUMBER:** 311519104056

**PROJECT TOPIC:** CUSTOMER CARE REGISTRY

**COLLEGE NAME: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE** 

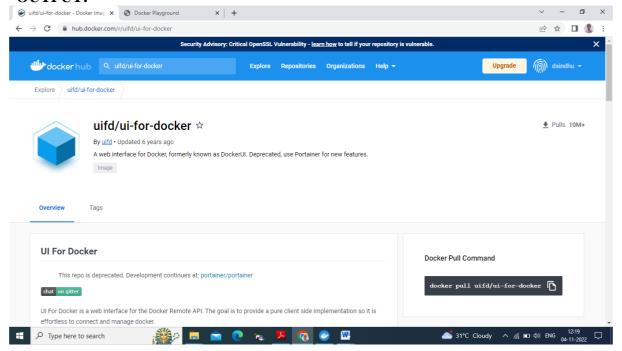
**TEAM NUMBER:** PNT2022TMID27825

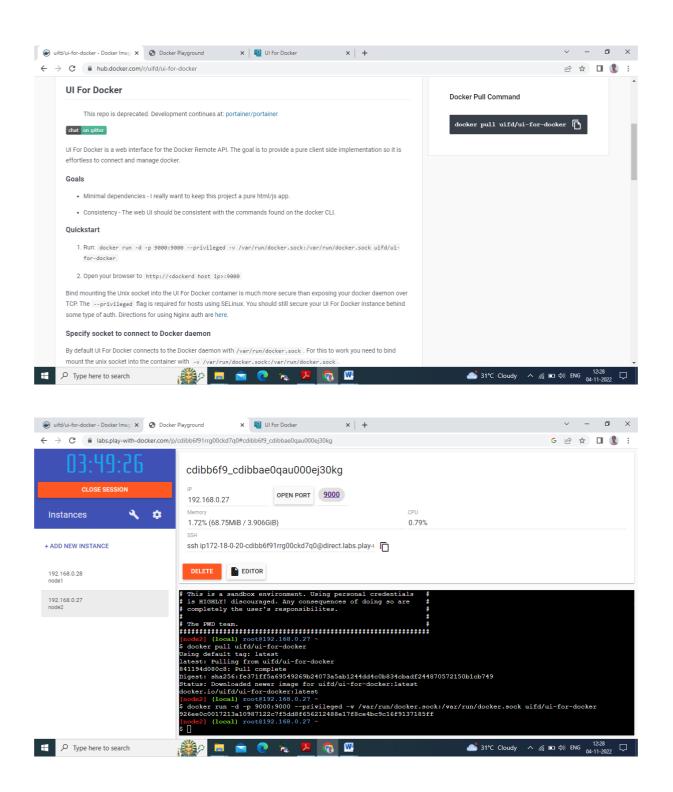
# 1)PULL AN IMAGE FROM DOCKER HUB AND RUN IT IN DOCKER BACKGROUND COMMANDS:

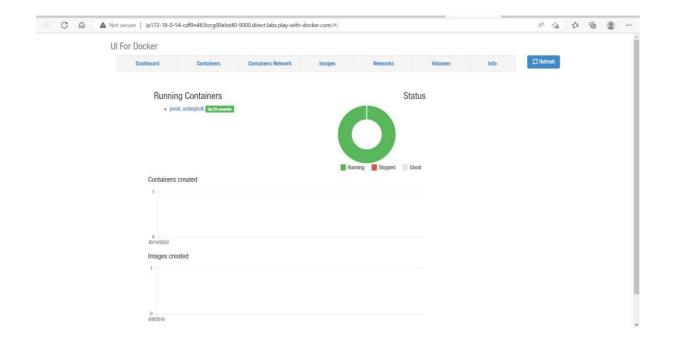
docker pull uifd/ui-for-docker

docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker

# **OUTPUT:**







# 2)CREATE A DOCKER FILE FOR THE JOB PORTAL APPLICATION AND DEPLOY IT IN DOCKER DESKTOP APPLICATION.

## **COMMANDS:**

docker build -t jp1.

docker run -p 5000:5000 jp1

# **OUTPUT:**

```
* Running on http://172.70.0.1:5000

* Running on http://172.77.0.2:5000

Press CTRL+C to quit

* Restarting with stat

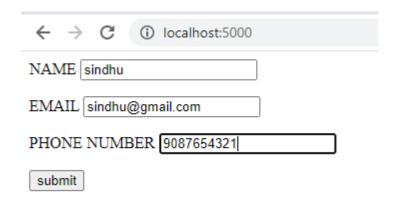
* Debugger is active!

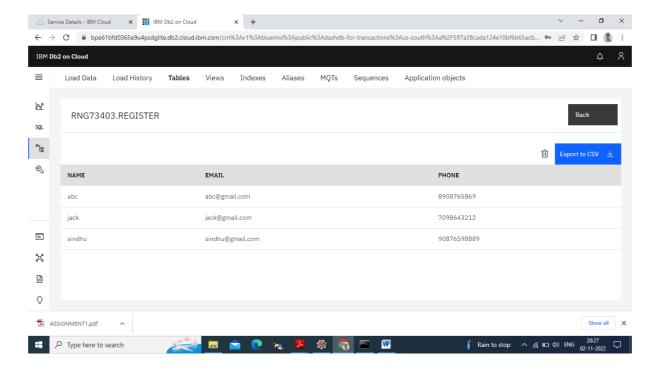
* Debugger is: 91-716-492

172.17.0.1 - [30/0ct/2022 16:07:26] "GET / HTTP/1.1" 404 -

172.17.0.1 - [30/0ct/2022 16:07:31] "GET / register HTTP/1.1" 200 -

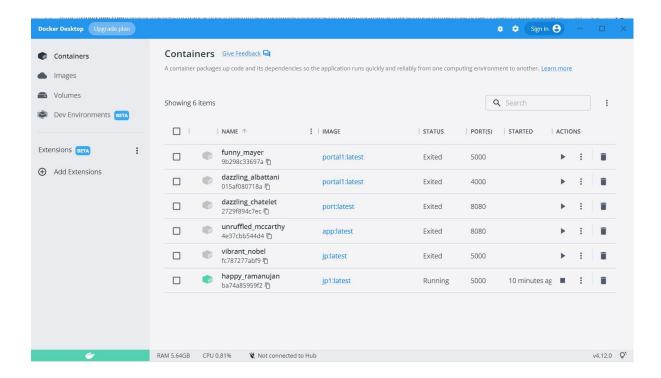
172.17.0.1 - [30/0ct/2022 16:07:30] "GET / register HTTP/1.1" 200 -
```



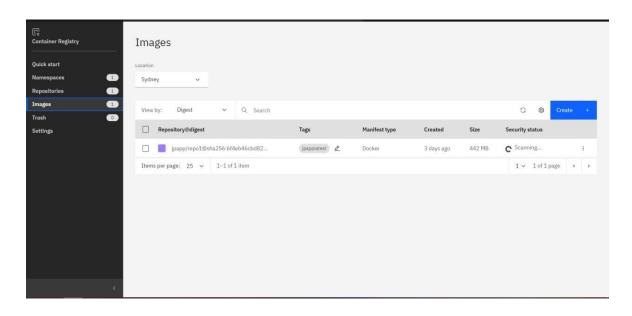


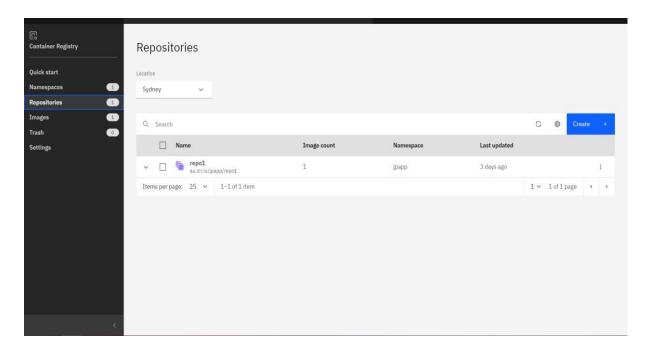


#### Hello

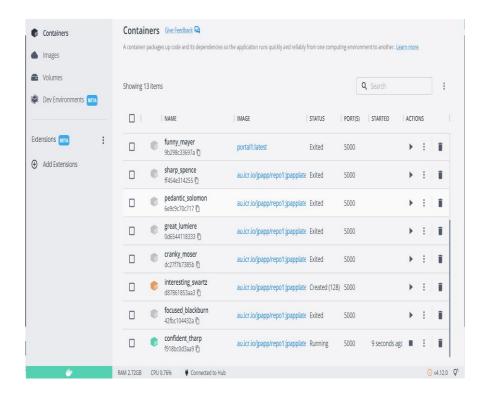


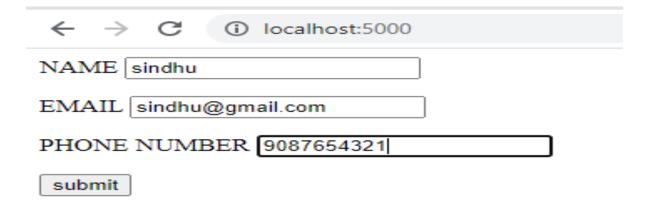
# 3)CREATE AN IBM CONTAINER REGISTRY AND DEPLOY HELLOWORLD APP OR JOBPORTAL APP





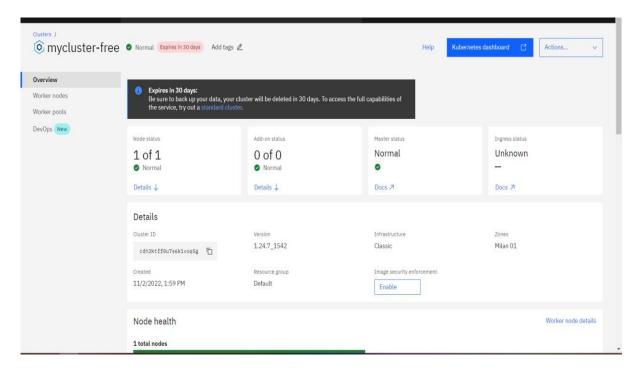




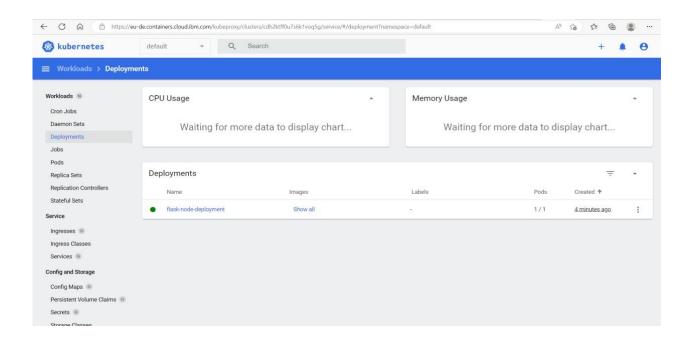


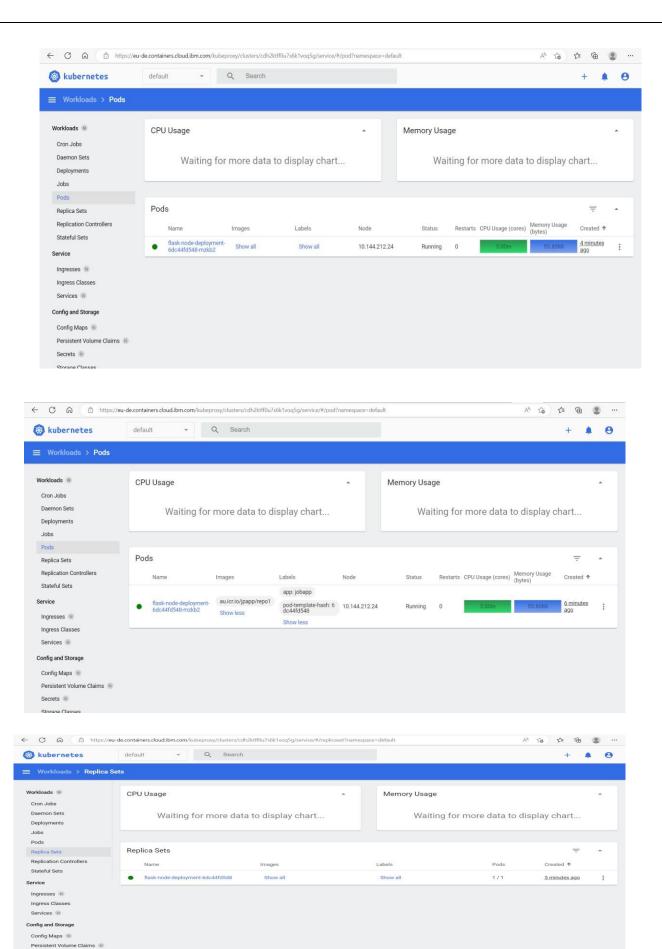
4) CREATE A KUBERNETES CLUSTER IN IBM CLOUD AND DEPLOY HELLO WORLD IMAGE OR JOB PORTAL IMAGE AND ALSO EXPOSE THE SAME APP TO RUN IN A NODEPORT.

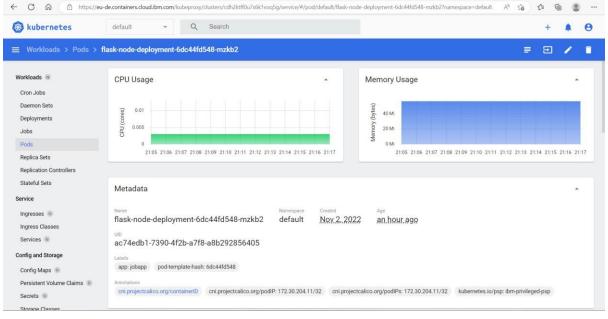
**KUBERNETES CLUSTER CREATION:** 

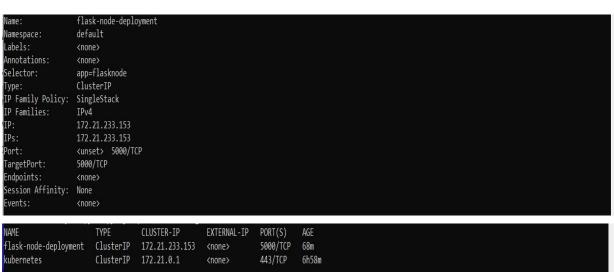


## DEPLOYMENT OF JOB PORTAL APP IN CLUSTER









ialic. I Taby\_linnc default Namespace: Labels: Annotations: app=jobapp Selector: ClusterIP IP Family Policy: SingleStack IP Families: IPv4 172.21.30.184 IPs: 172.21.30.184 <unset> 80/TCP Port: TargetPort: 8008/TCP Endpoints: 172.30.204.11:8008 Session Affinity: None vents: <none>

#### **EXPOSE APP TO NODEPORT:**

```
flask
                         default
 lamespace:
Labels:
                         <none>
Annotations:
                         <none>
Selector:
                         app=jobapp
                         NodePort
Type:
IP Family Policy:
                         SingleStack
IP Families:
                         IPv4
IP:
                         172.21.15.156
IPs:
                         172.21.15.156
                         <unset> 80/TCP
Port:
TargetPort:
                         8008/TCP
 lodePort:
                         <unset> 32153/TCP
 indpoints:
                         172.30.204.11:8008
Session Affinity:
                         None
External Traffic Policy: Cluster
 vents:
                         <none>
```

