ASSIGNMENT 4

NAME: B.AISHWARYA

REGISTER NUMBER: 311519104006

PROJECT TOPIC: CUSTOMER CARE REGISTRY

COLLEGE NAME: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

TEAM NUMBER: PNT2022TMID27825

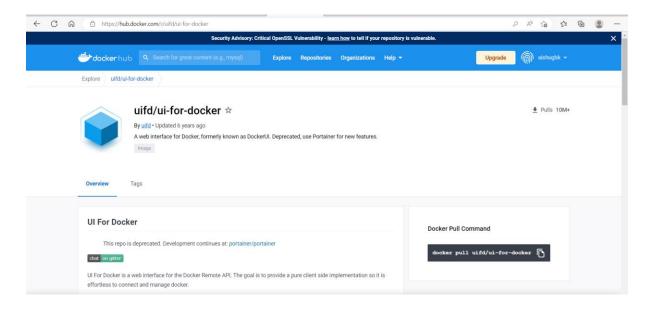
1) Pull an image from docker hub and run it in docker playground

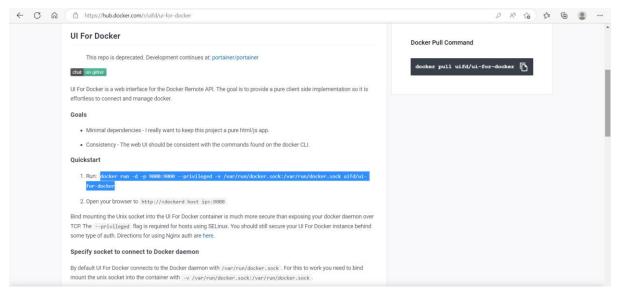
COMMANDS:

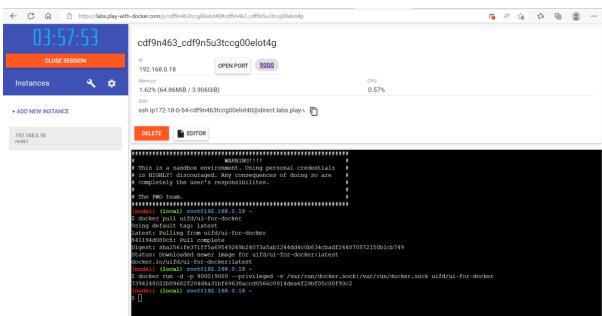
docker pull uifd/ui-for-docker

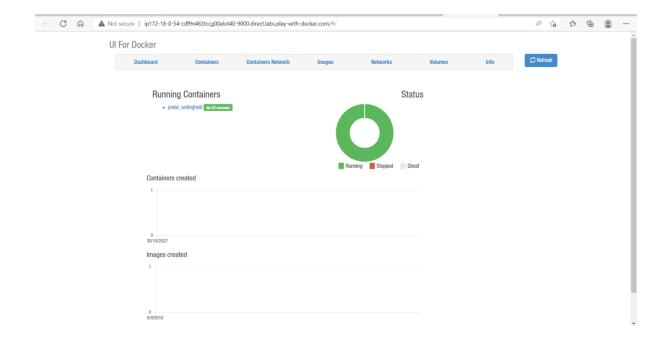
docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker

OUTPUT:









2) Create a docker file for the job portal application and deploy it in Docker desktop application

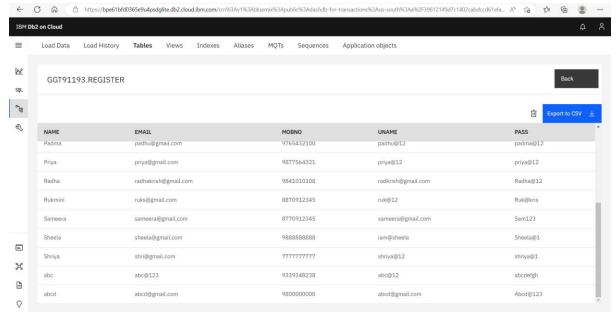
COMMANDS:

docker build -t jp1.

docker run -p 5000:5000 jp1

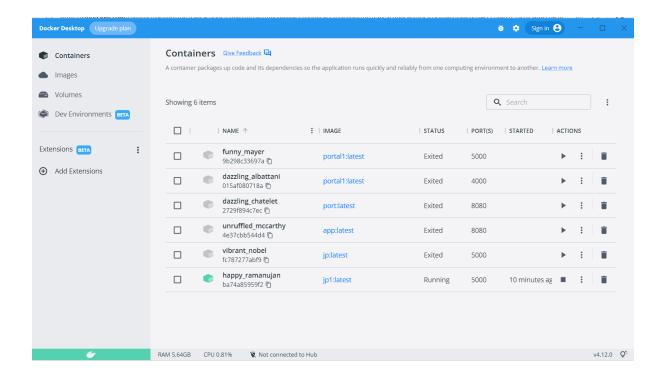
OUTPUT:











3) Create an IBM Container registry and deploy helloworld app or jobportalapp JOB-PORTAL-APP:

```
Authenticating...

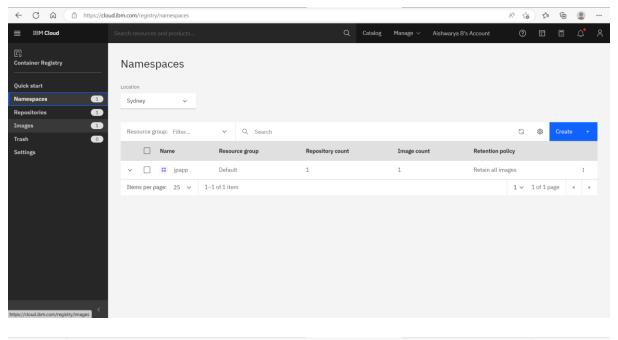
Authenticating...

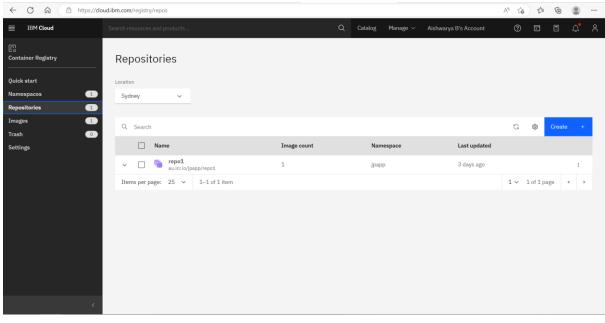
Targeted account Aishwarya 8's Account (39612149d7c1482cabdccd61efac4435)

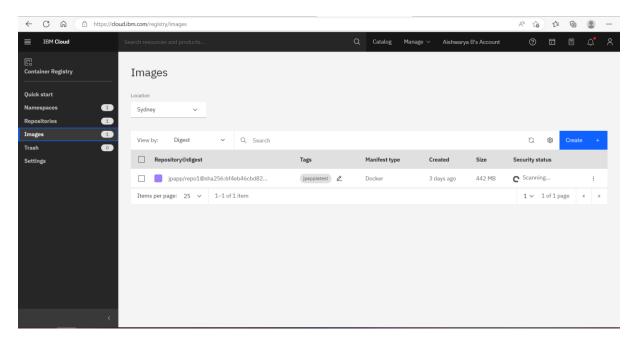
API endpoint: https://cloud.ibm.com
Region: us-South
Sear: 31151910408069.martinternz.com
Account: Aishwarya 8's Account (39012149d7c1482cabdccd61efac4435)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'

CF API endpoint:
Ong:
Space:
C:\Users\Akshwarya>ibmcloud cr login
Logging 'docker' in to 'au.icr.io'...
Logged in to 'au.icr.io'.

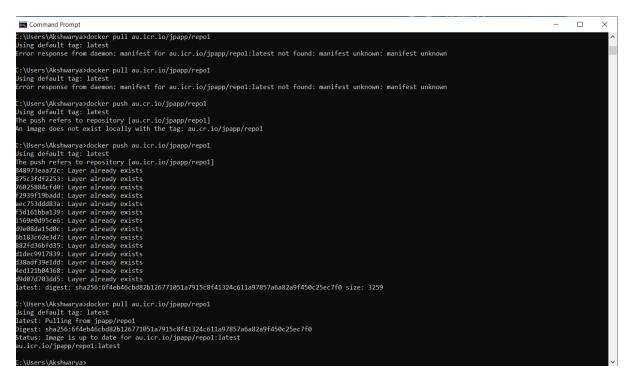
C:\Users\Akshwarya>docker push au.icr.io/jpapp/repol:jpapplatest
The push refers to repository [au.icr.io/jpapp/repol]
84889/26aa7cc: Pushed
8489/26aa7cc: Pushed
8489/26aa7cc: Pushed
8489/26aa7cc: Pushed
8498/26aa7cc: Pushed
8498/26aa7cc:
```

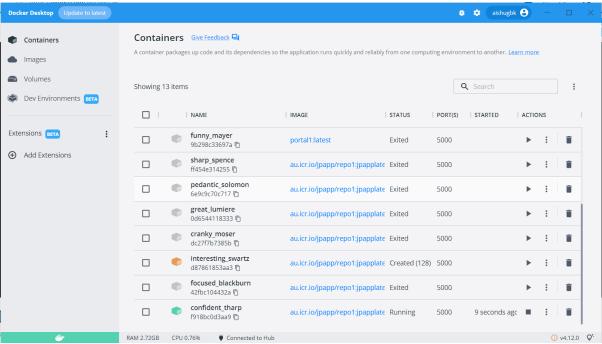


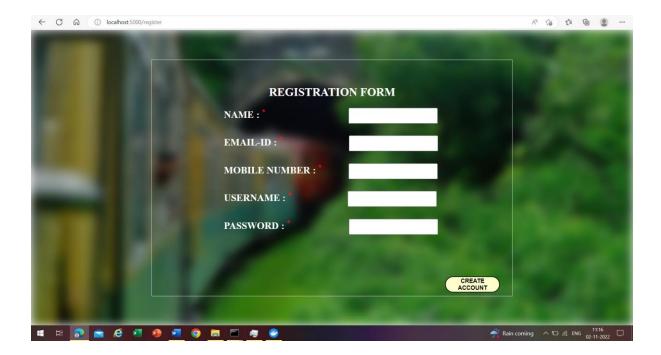




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| Jacob | String | St
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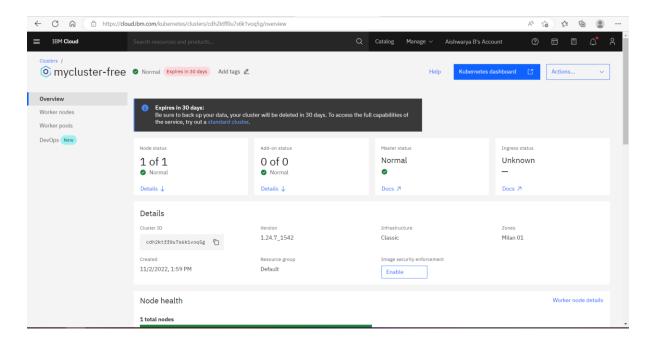




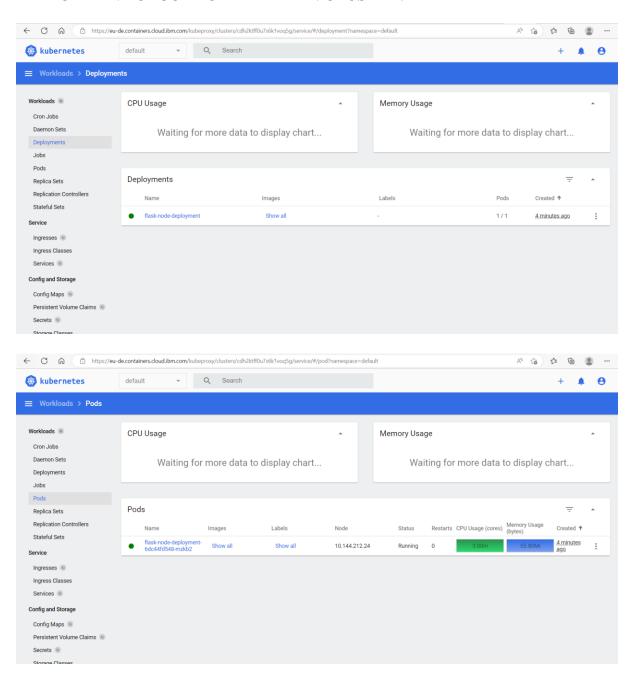


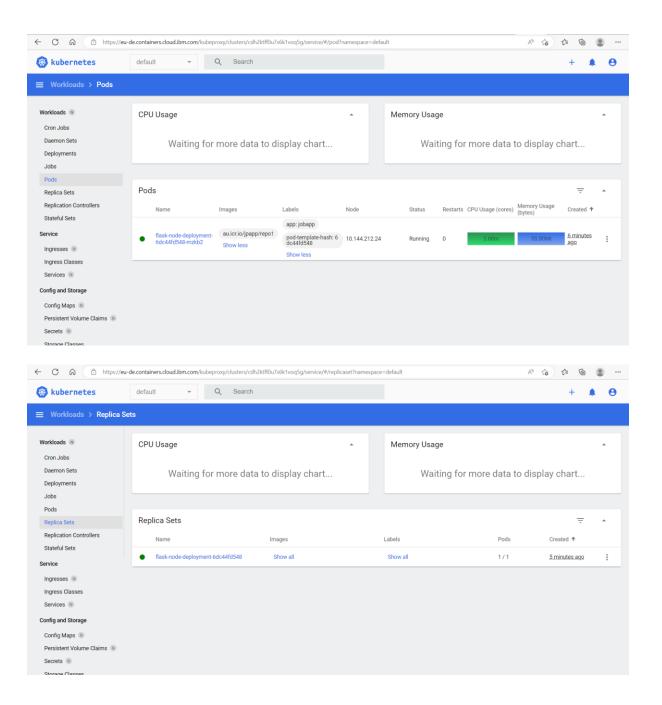
4) Create a Kubernetes cluster in IBM Cloud and deploy helloworld image or jobportal image and also expose the same app to run in a nodeport

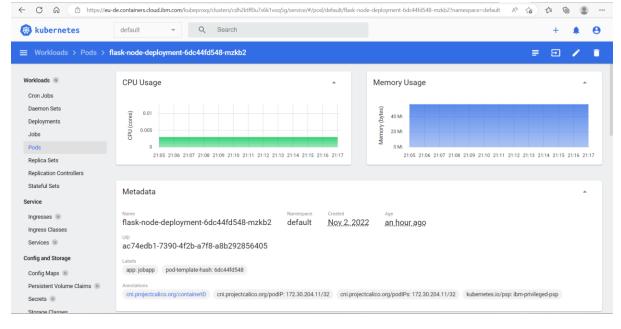
KUBERNETES CLUSTER CREATION:



DEPLOYMENT OF JOB PORTAL APP IN CLUSTER:







```
C:\Users\Akshwarya\.spyder-py3\job-portal>kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
flask-node-deployment ClusterIP 172.21.233.153 <none> 5000/TCP 68m
kubernetes ClusterIP 172.21.0.1 <none> 443/TCP 6h58m
```

EXPOSE APP TO NODEPORT:

