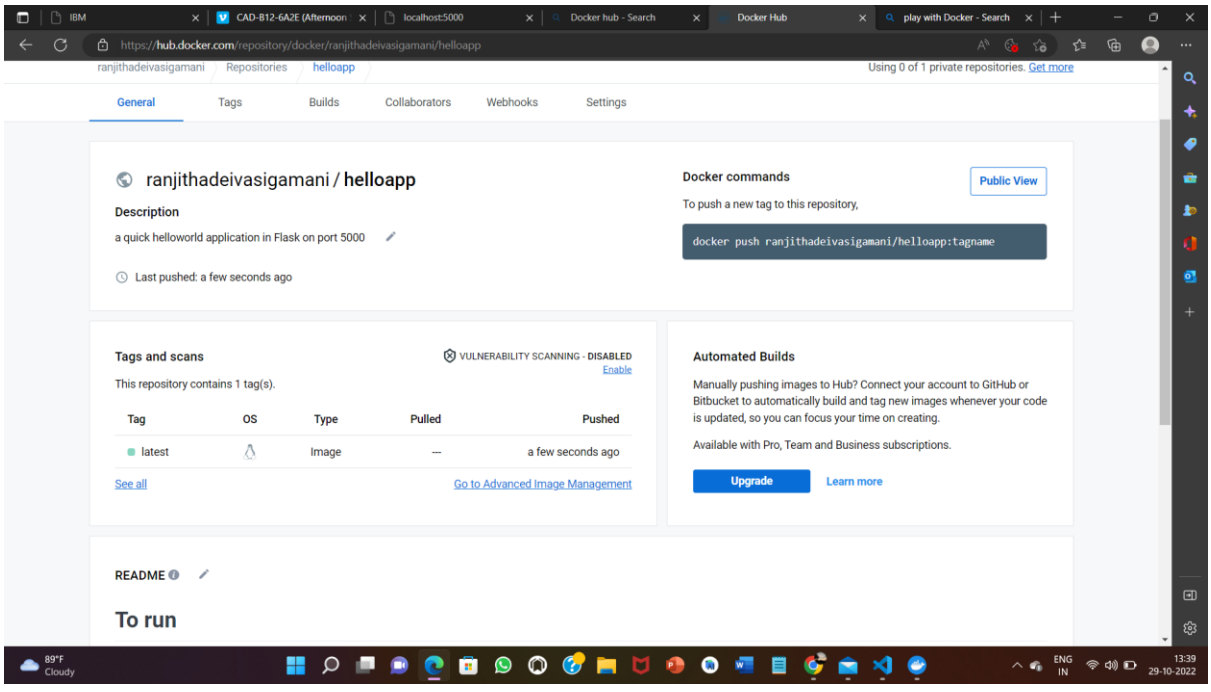
Assignment -4

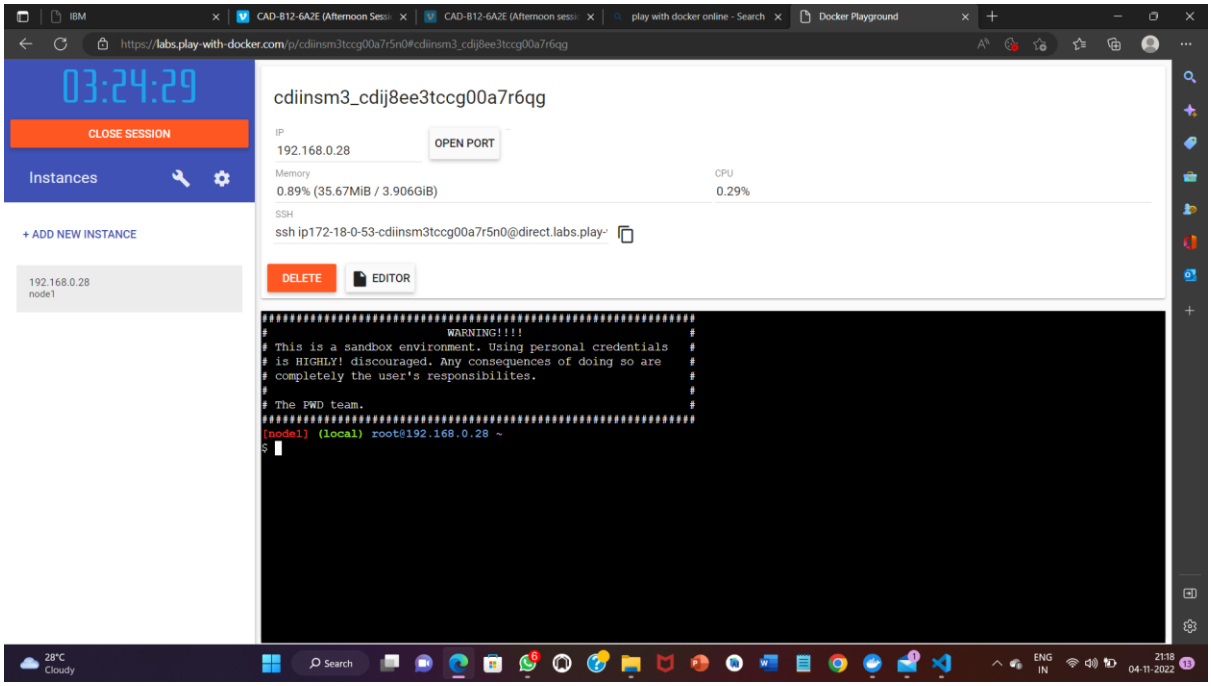
Customer Care Registry

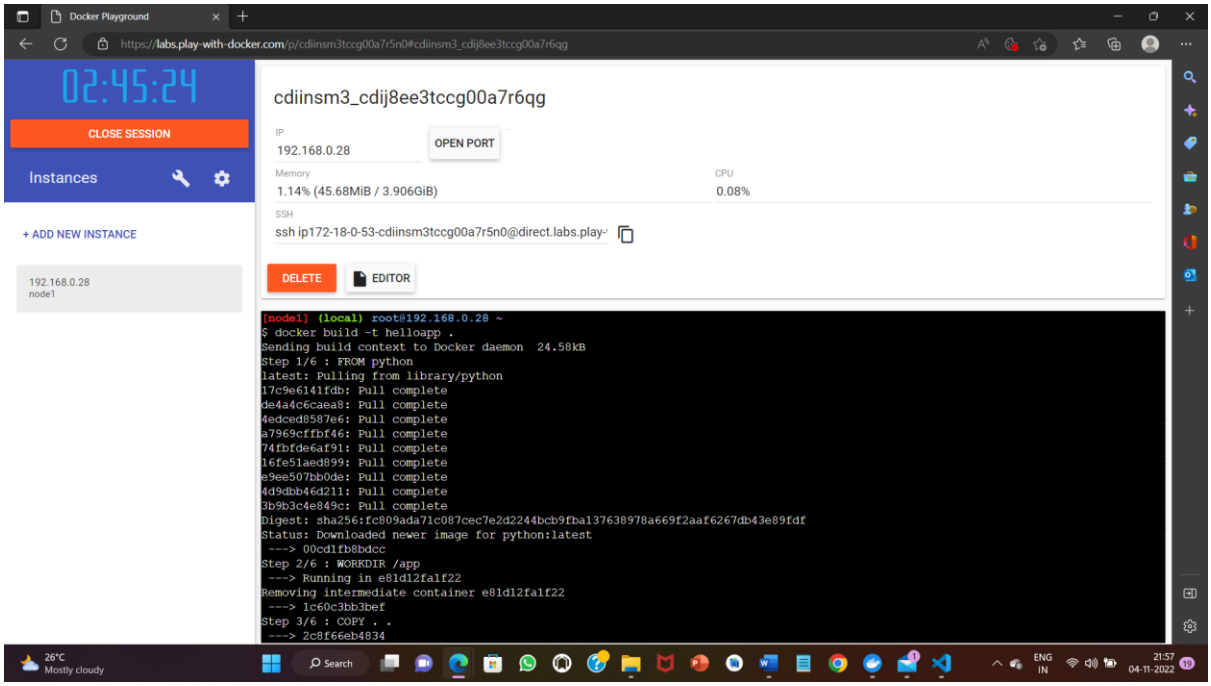
Team id:PNT2022TMID42765

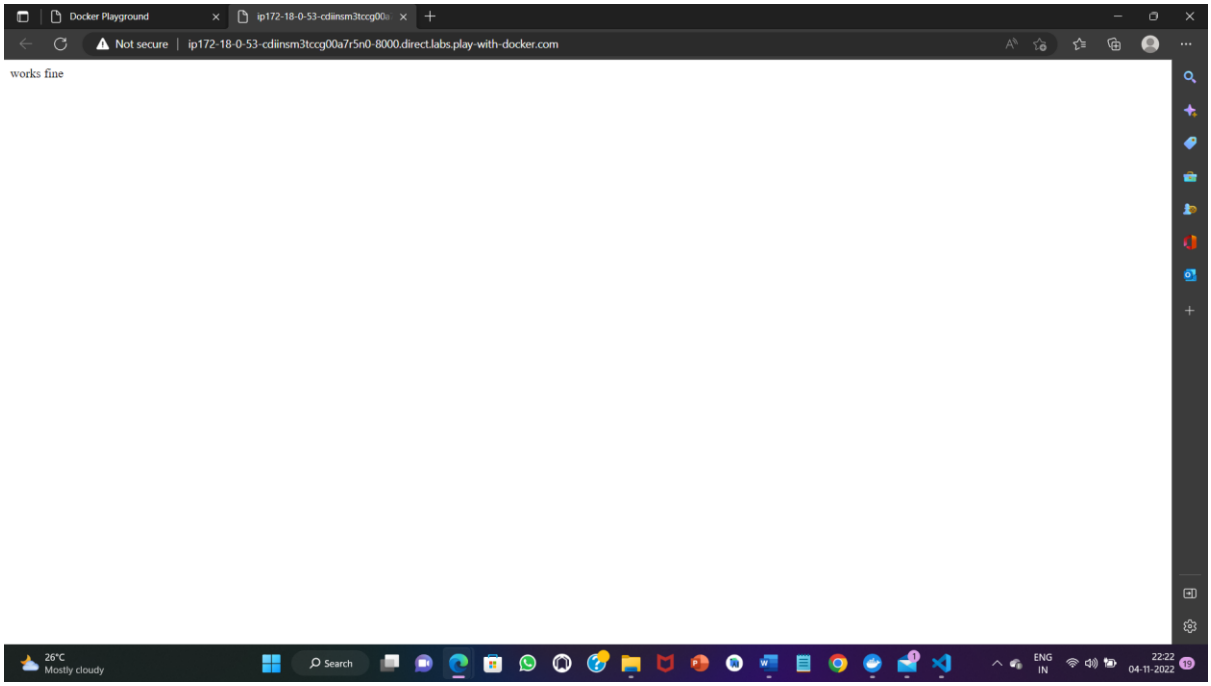
Kubernetes and Docker

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

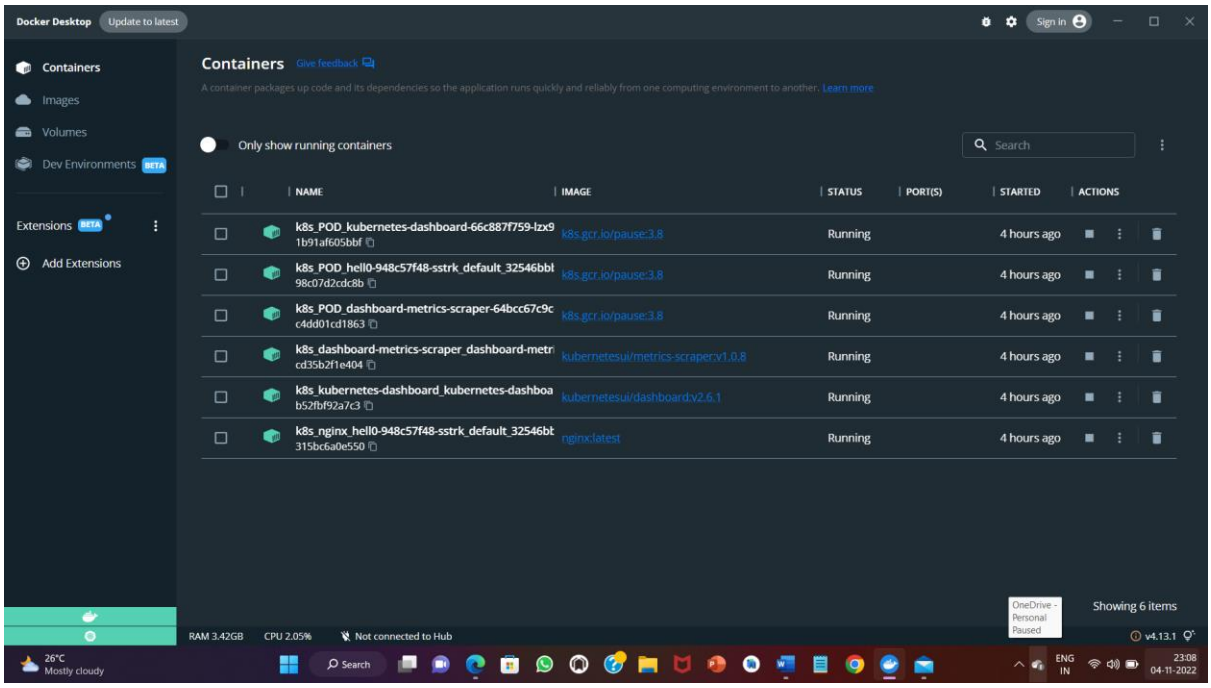



IBM
CAD-B12-6A2E (Afternoon Sessi
CAD-B12-6A2E (Afternoon sessi
play with docker online - Search
Docker Playground
https://labs.play-with-docker.com/p/cdiinsm3tccg00a7r5n0#cdiinsm3_cdij8ee3tccg00a7r6qg
03:24:29
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.28
node1
cdiinsm3_cdij8ee3tccg00a7r6qg
IP
192.168.0.28
OPEN PORT
Memory
0.89% (35.67MiB / 3.906GiB)
CPU
0.29%
SSH
ssh ip172-18-0-53-cdiinsm3tccg00a7r5n0@direct.labs.play-
DELETE
EDITOR
WARNING!!!!
This is a sandbox environment. Using personal credentials is HIGHLY! discouraged. Any consequences of doing so are completely the user's responsibilites.
The PWD team.
[node1] (local) root@192.168.0.28 ~
$
28°C
Cloudy
Search
ENG
IN
21:18
04-11-2022

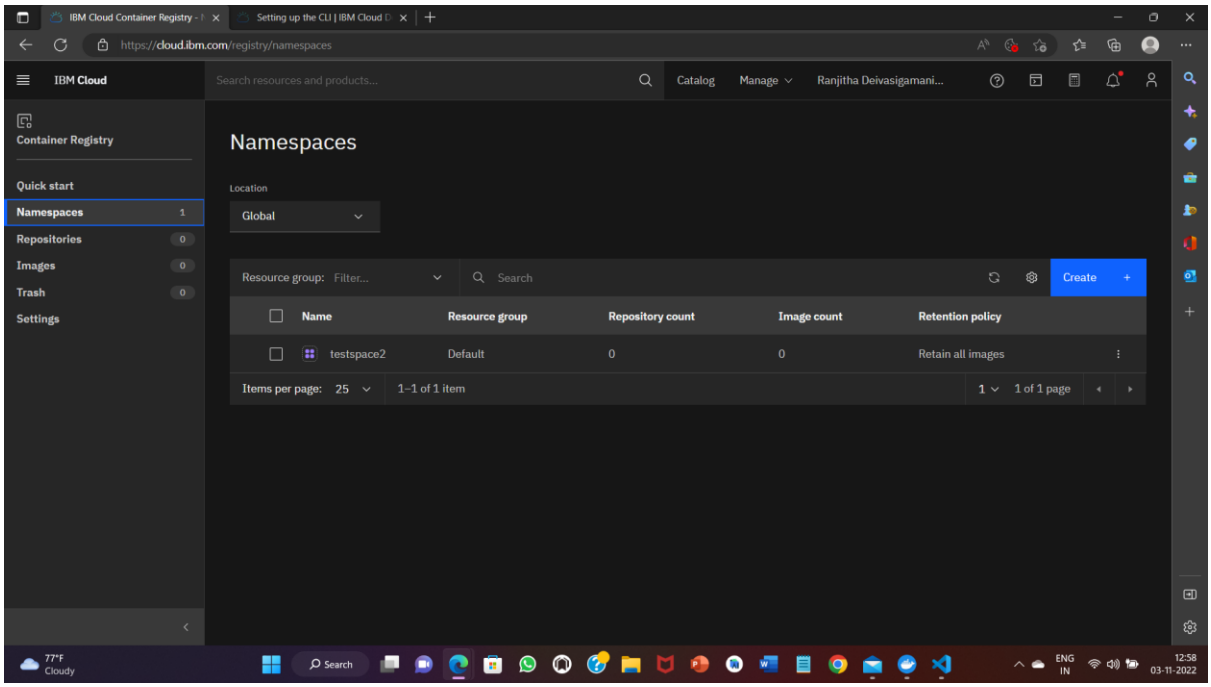

Docker Playground
https://labs.play-with-docker.com/p/cdiinsm3tccg00a7r5n0#cdiinsm3_cdij8ee3tccg00a7r6qg
02:45:24
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.28
node1
cdiinsm3_cdij8ee3tccg00a7r6qg
IP
192.168.0.28
OPEN PORT
Memory
1.14% (45.68MiB / 3.906GiB)
CPU
0.08%
SSH
ssh ip172-18-0-53-cdiinsm3tccg00a7r5n0@direct.labs.play-
DELETE
EDITOR
[node1] (local) root@192.168.0.28 ~
$ docker build -t helloapp .
Sending build context to Docker daemon 24.58kB
Step 1/6 : FROM python
latest: Pulling from library/python
17c9e6141fdb: Pull complete
de4a4c6caea8: Pull complete
4edced8587e6: Pull complete
a7969cffbf46: Pull complete
74fbfde6af91: Pull complete
16fe51aed899: Pull complete
e9ee507bb0de: Pull complete
4d9dbb46d211: Pull complete
3b9b3c4e849c: Pull complete
Digest: sha256:fc809ada71c087cec7e2d2244bcb9fba137638978a669f2aaf6267db43e89fdf
Status: Downloaded newer image for python:latest
---> 00cd1fb8bdcc
Step 2/6 : WORKDIR /app
---> Running in e81d12fa1f22
Removing intermediate container e81d12fa1f22
---> 1c60c3bb3bef
Step 3/6 : COPY . .
---> 2c8f66eb4834
26°C
Mostly cloudy
Search
ENG
IN
21:57
04-11-2022

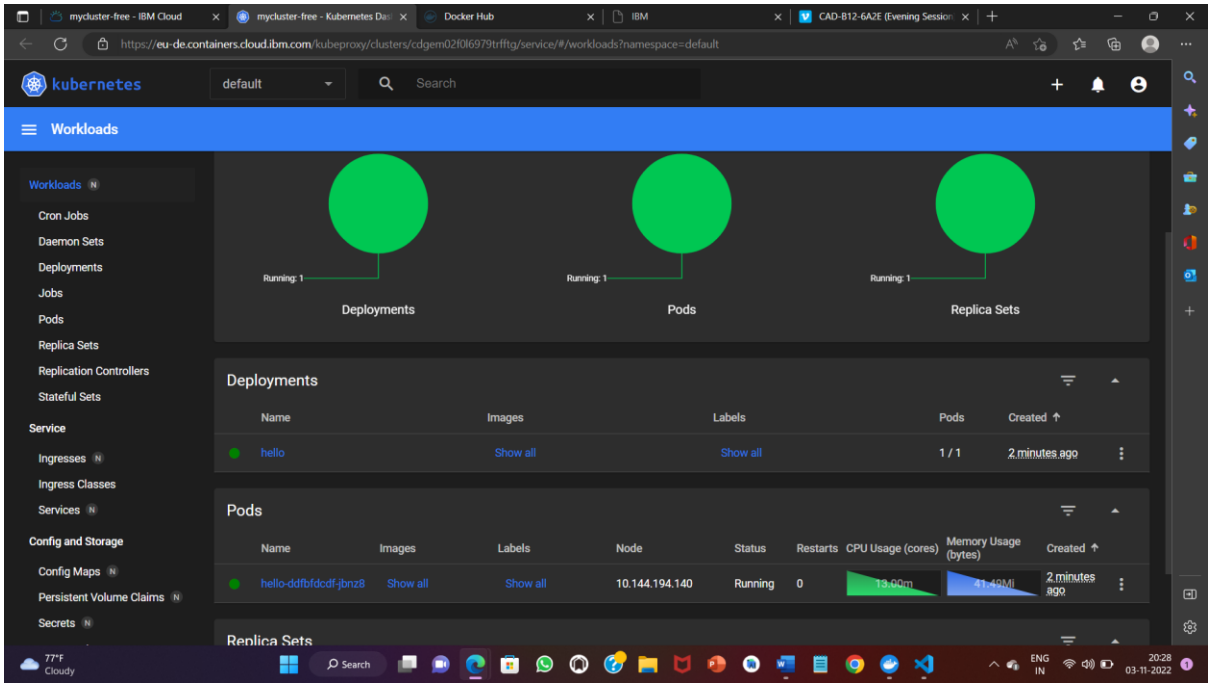


2.Create a Docker file for the job portal application and deploy it the docker desktop application.

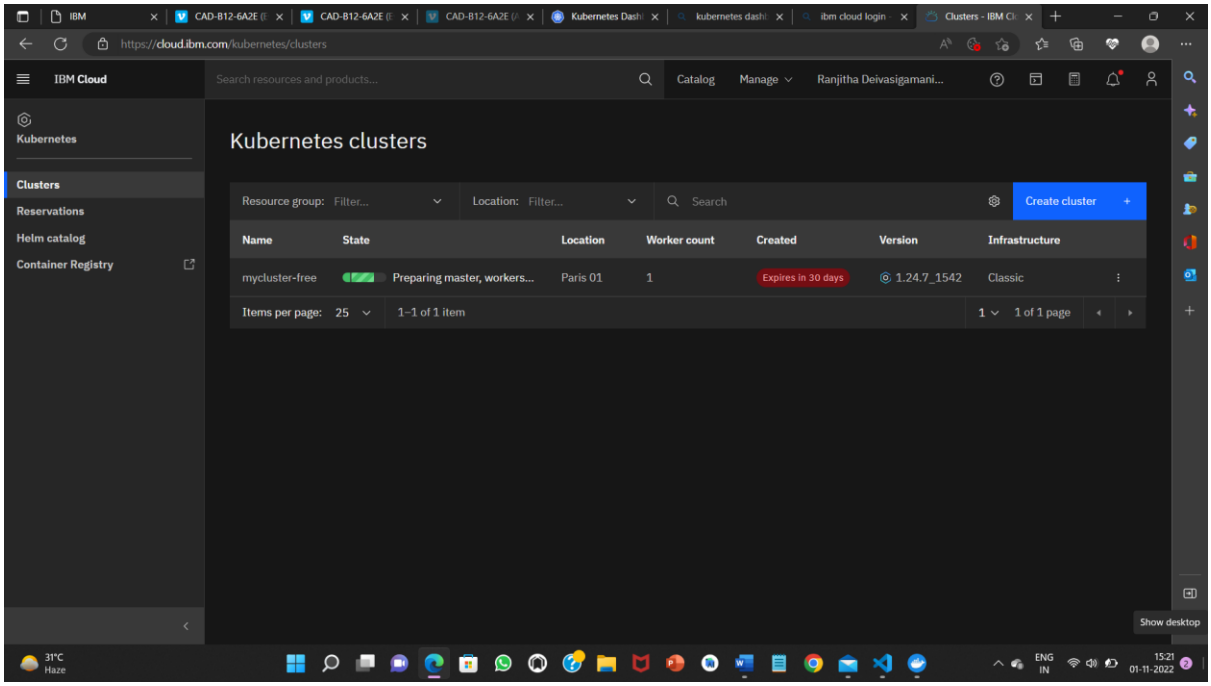


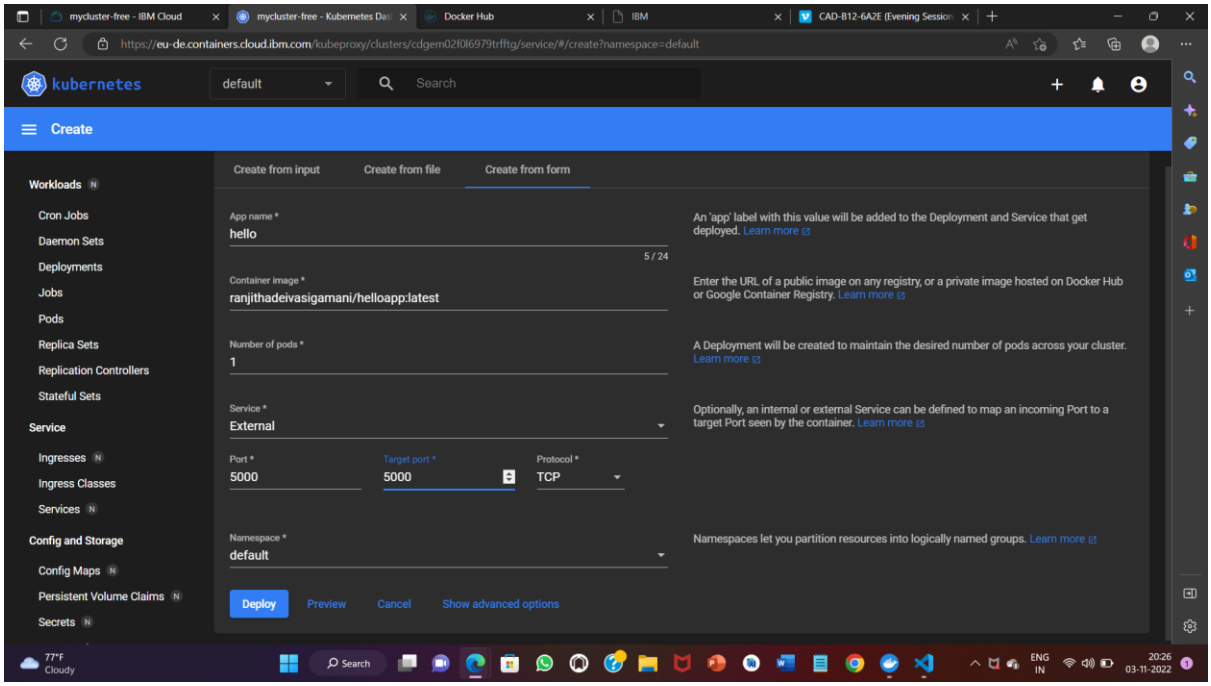
3.Create an IBM container registry and deploy hello world app or job portal job.

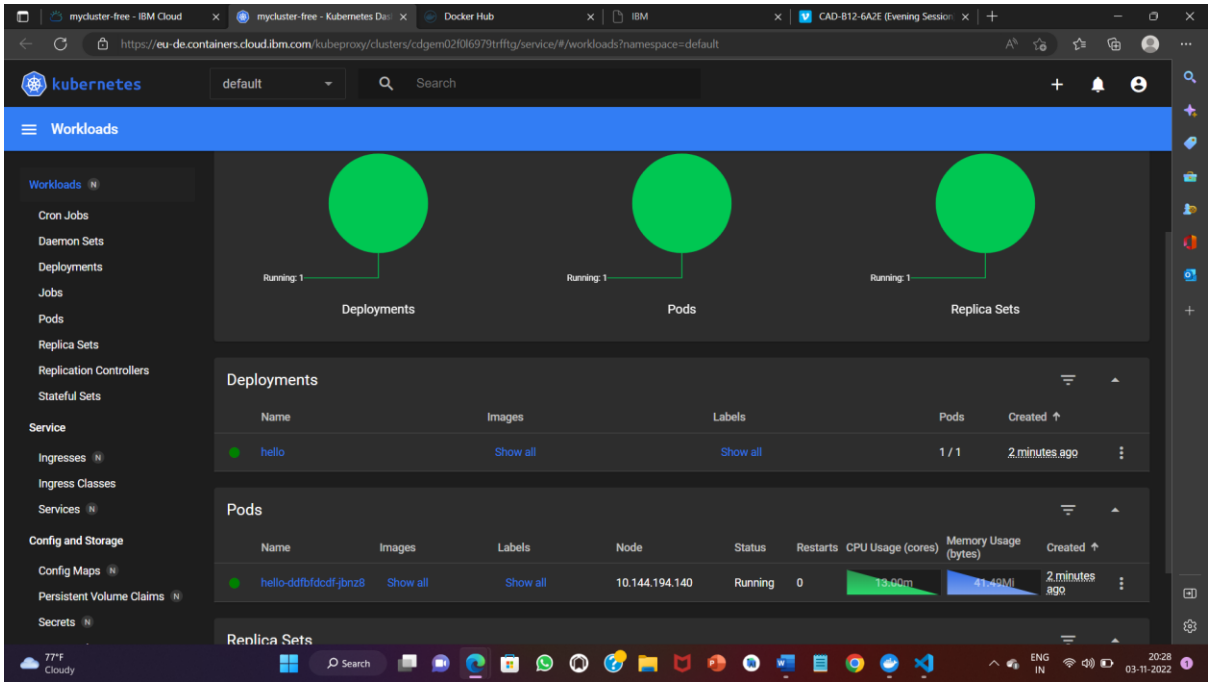


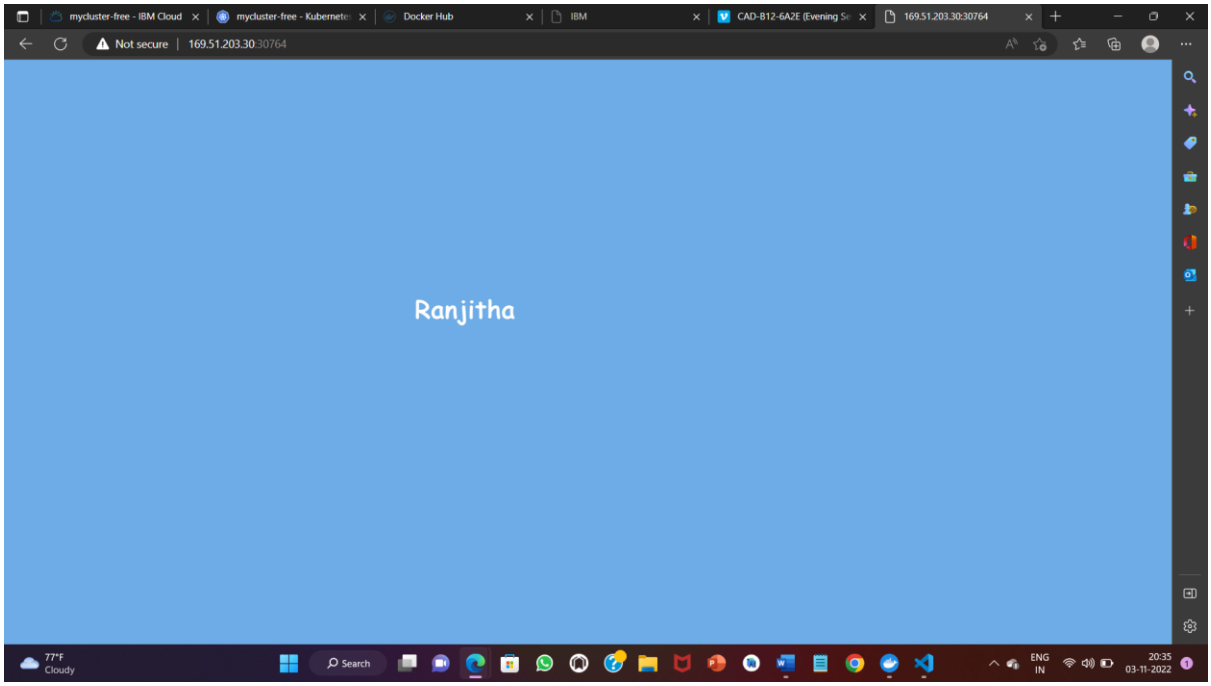


4.Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in nodeport.






mycluster-free - IBM Cloud
mycluster-free - Kubernetes Das
Docker Hub
IBM
CAD-B12-6A2E (Evening Session
https://eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdgem02f0l6979trfftg/service/#/workloads?namespace=default
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Running: 1
Deployments
Running: 1
Pods
Running: 1
Replica Sets
Deployments
Name
Images
Labels
Pods
Created
hello
Show all
Show all
1 / 1
2 minutes ago
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
hello-ddfbfdcdf-jbnz8
Show all
Show all
10.144.194.140
Running
0
13.00m
41.49Mi
2 minutes ago
Replica Sets
77°F
Cloudy
Search
ENG
IN
20:28
03-11-2022


mycluster-free - IBM Cloud
mycluster-free - Kubernete
Docker Hub
IBM
CAD-B12-6A2E (Evening Se
169.51.203.30:30764
Not secure
169.51.203.30:30764
Ranjitha
77°F
Cloudy
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ENG
IN
20:35
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