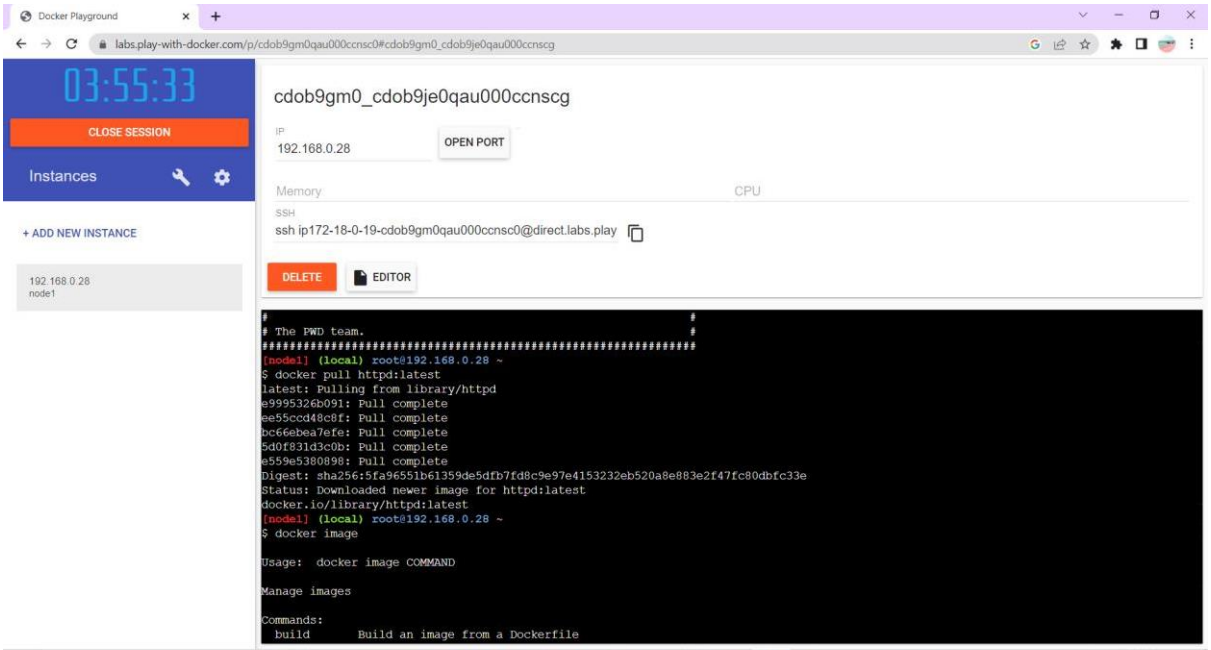
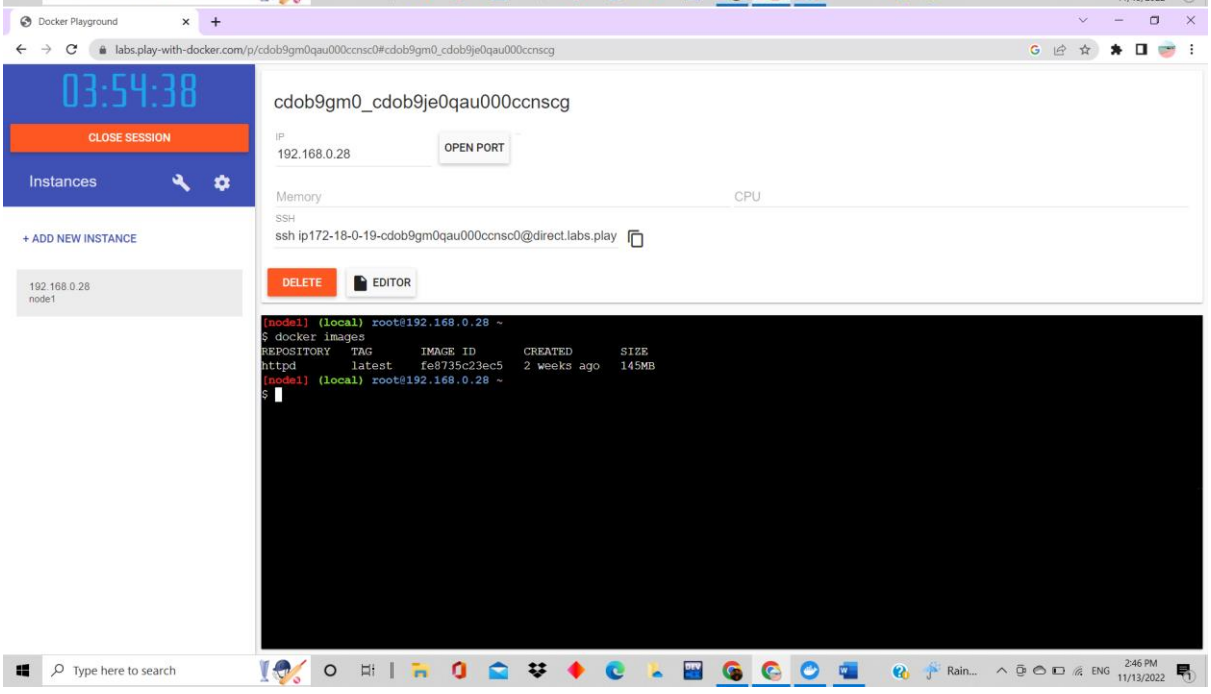
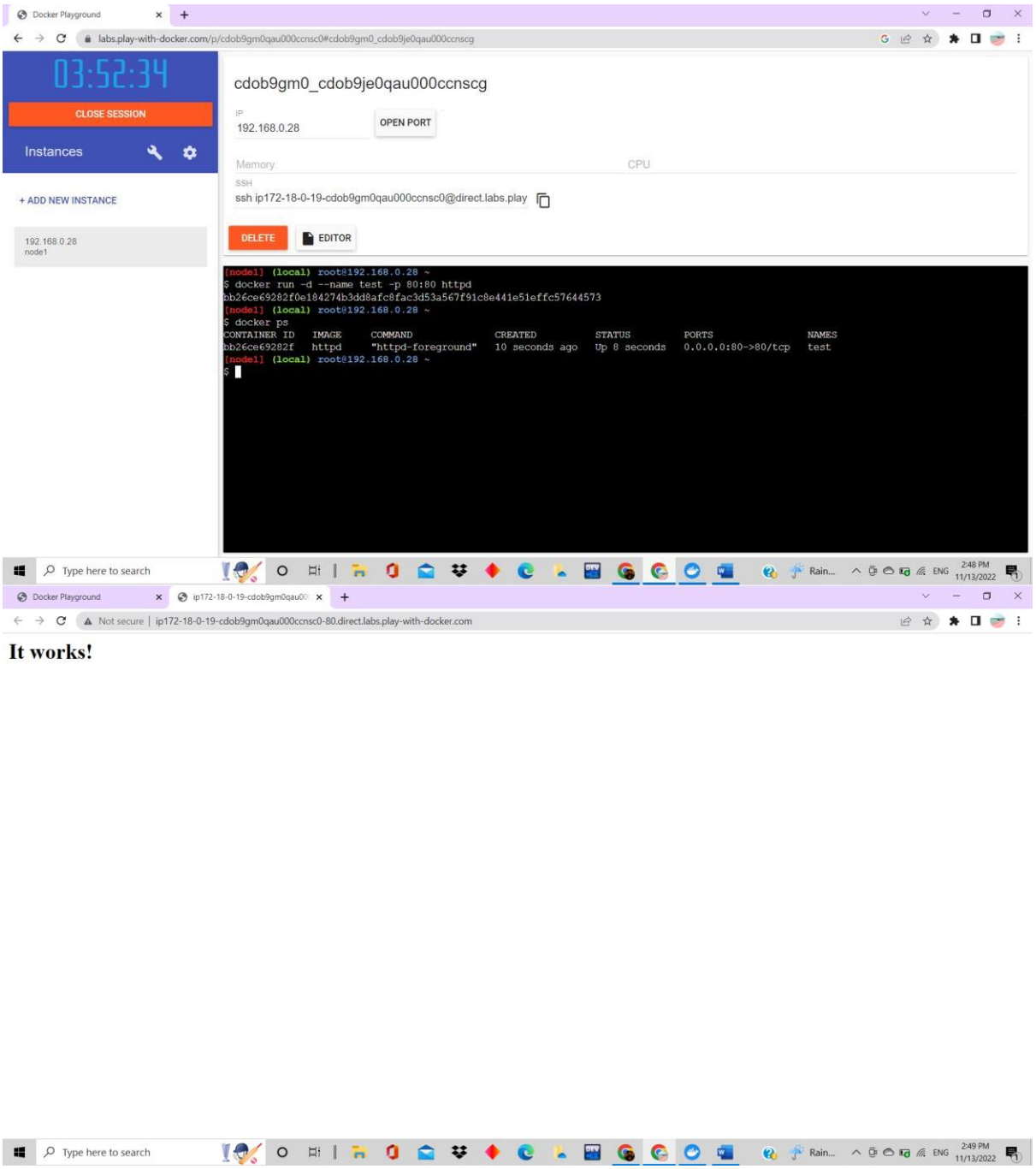
Assignment -4

Assignment Date	13 November 2022
Student Name	KRISHNA K
Student Roll Number	953619104023
Maximum Marks	2 Marks

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





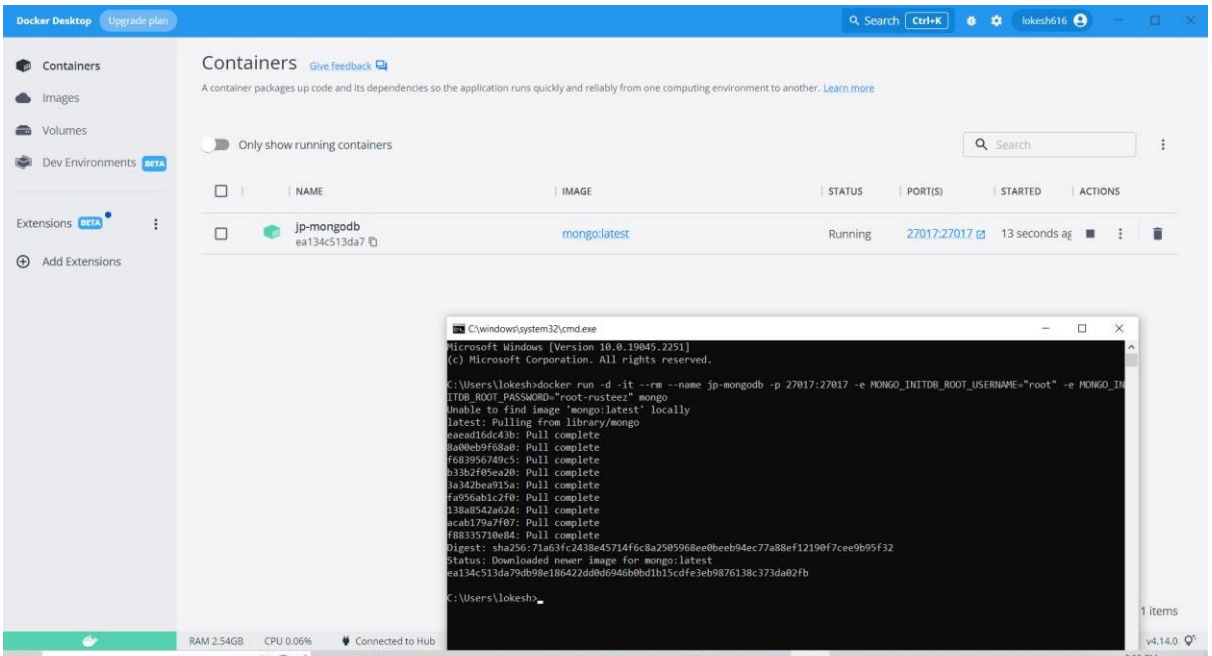

Docker Playground
labs.play-with-docker.com/p/cdob9gm0qau000ccnsc0#cdob9gm0_cdob9je0qau000ccnscg
03:52:34
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.28
node1
cdob9gm0_cdob9je0qau000ccnscg
IP
192.168.0.28
OPEN PORT
Memory
CPU
SSH
ssh ip172-18-0-19-cdob9gm0qau000ccnsc0@direct.labs.play
DELETE
EDITOR
[node1] (local) root@192.168.0.28 ~
$ docker run -d --name test -p 80:80 httpd
bb26ce69282f0e184274b3dd8afc8fac3d53a567f91c0e441e51effc57644573
[node1] (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bb26ce69282f httpd "httpd-foreground" 10 seconds ago Up 8 seconds 0.0.0.0:80->80/tcp test
[node1] (local) root@192.168.0.28 ~
$
Type here to search
2:48 PM
11/13/2022

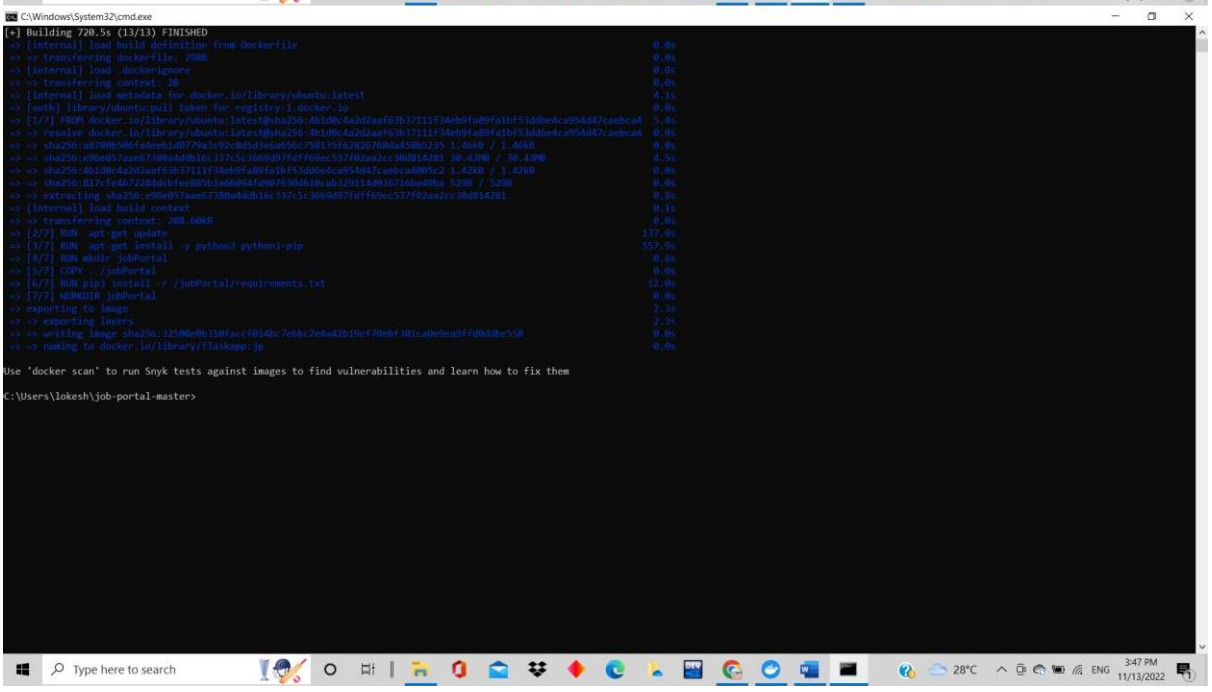
Docker Playground
Not secure | ip172-18-0-19-cdob9gm0qau000ccnsc0-80.direct.labs.play-with-docker.com

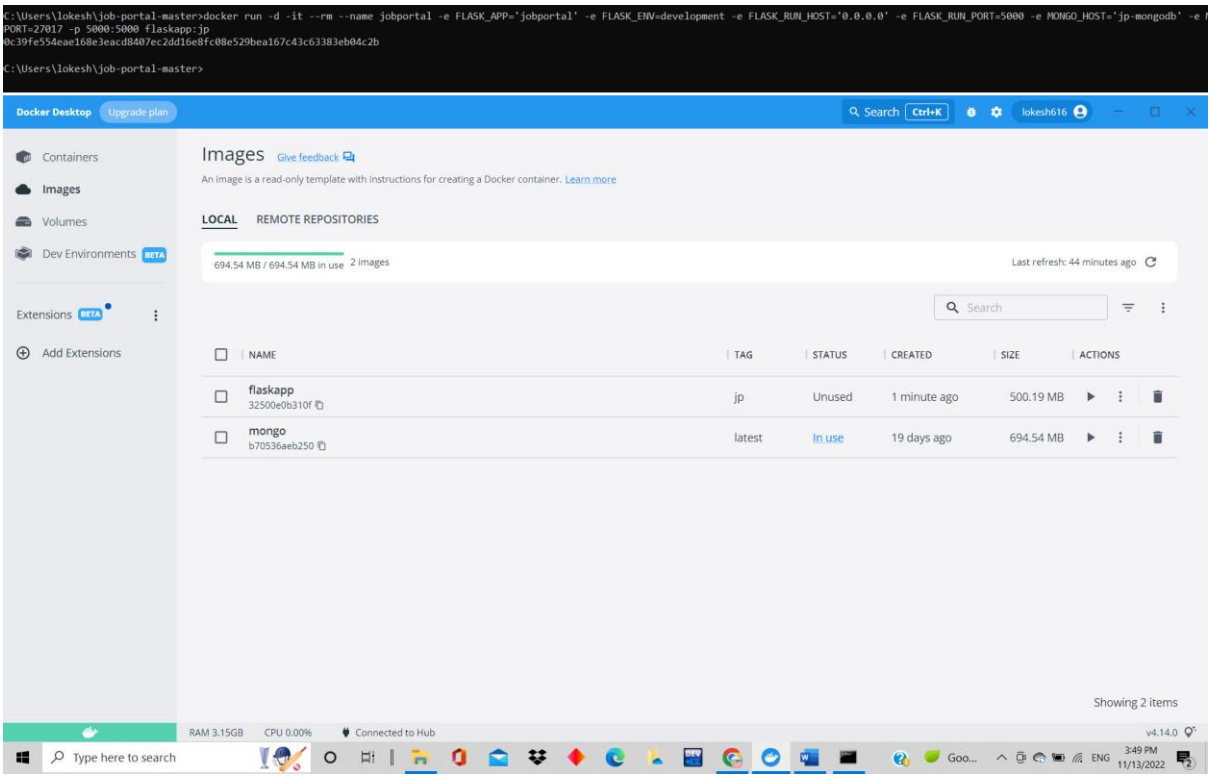
It works!

Type here to search
2:49 PM
11/13/2022

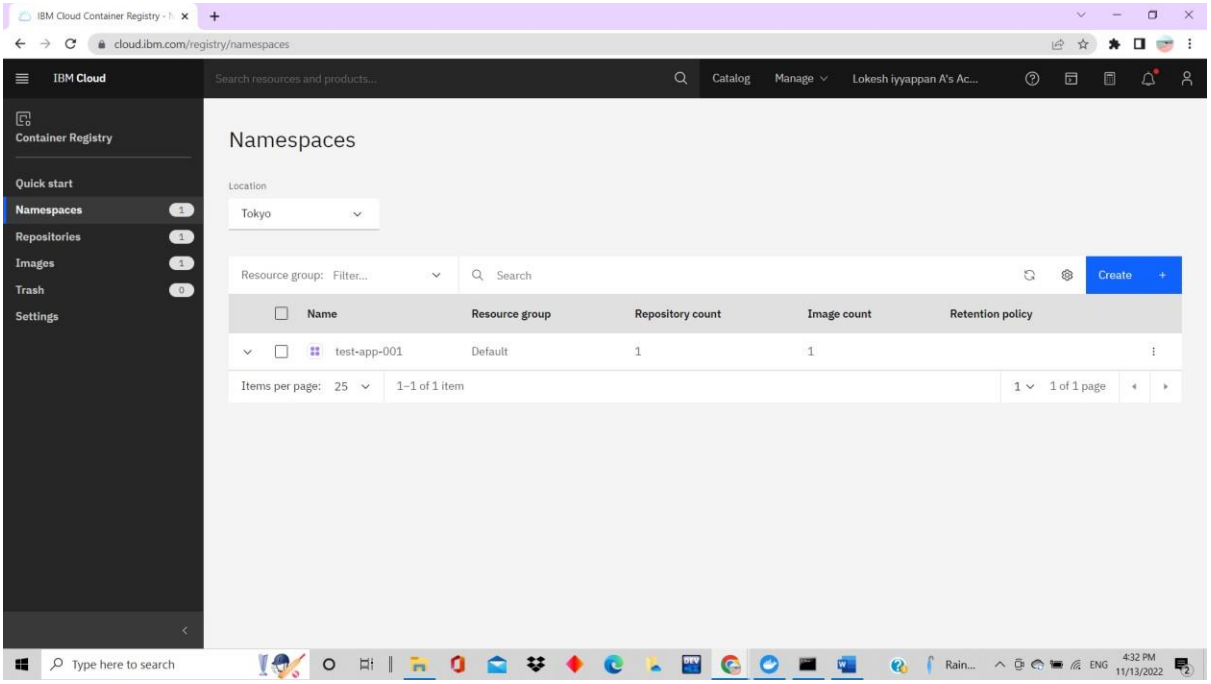
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

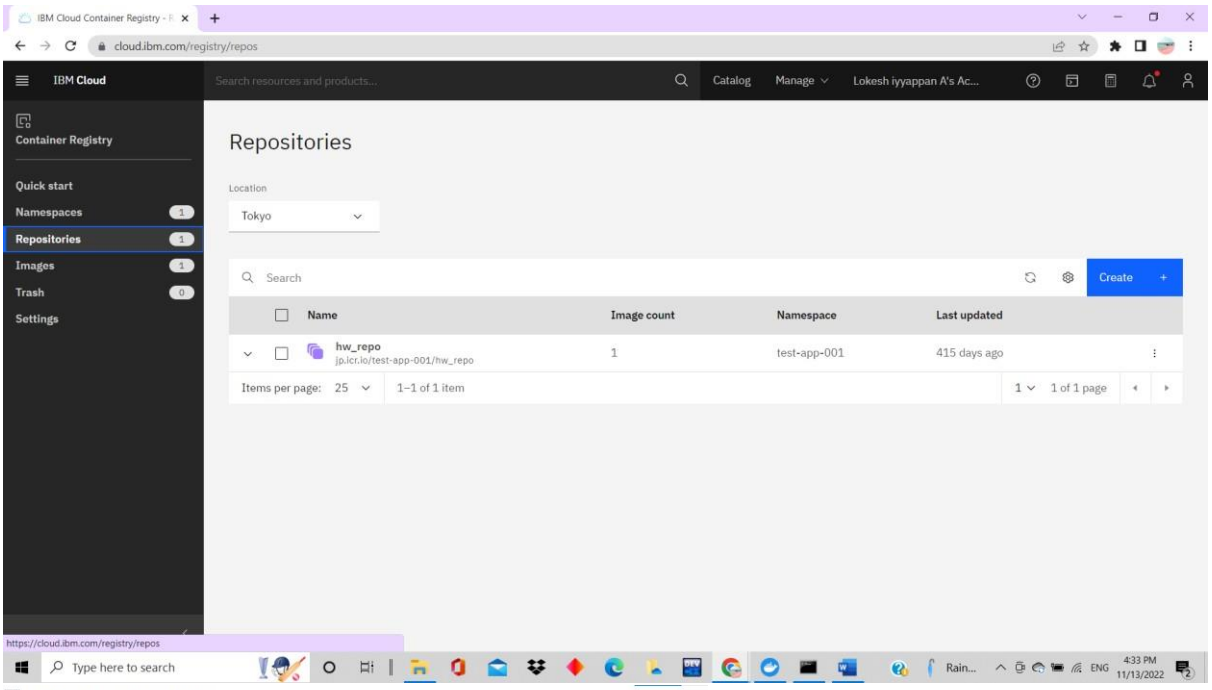






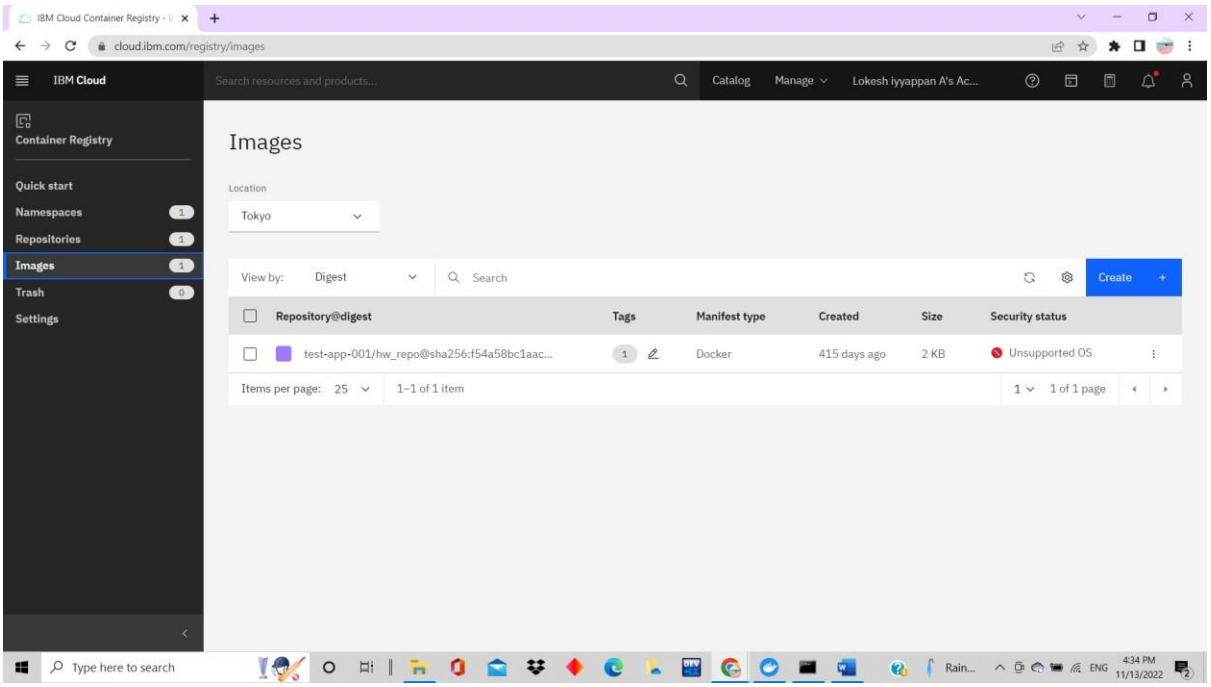
3. **Create a IBM container registry and deploy helloworld app or jobportalapp.**



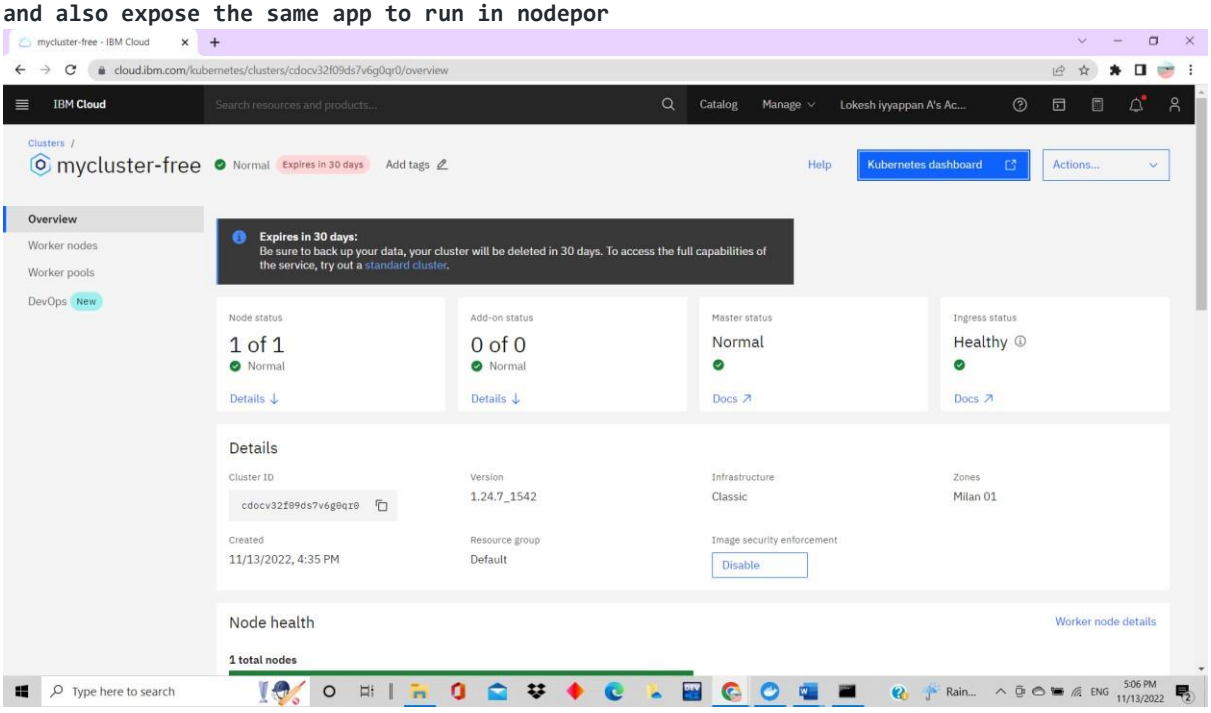



```
Select C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lokesh>ibmcloud login
API endpoint: https://cloud.ibm.com

Email> 953619104026@ritrjpm.ac.in

Password>
Authenticating...
OK

Targeted account Lokesh iyyappan A's Account (6cfc0d4f330147559716e90f5718cfc2)


Select a region (or press enter to skip):
1. au-syd
2. in-che
3. jp-osa
4. jp-tok
5. kr-seo
6. eu-de
7. eu-gb
8. ca-tor
9. us-south
10. us-east
11. br-sao
Enter a number> 4
Targeted region jp-tok


API endpoint:      https://cloud.ibm.com
Region:            jp-tok
User:              953619104026@ritrjpm.ac.in
Account:           Lokesh iyyappan A's Account (6cfc0d4f330147559716e90f5718cfc2)
Resource group:    No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\lokesh>cd C:\Users\lokesh\job-portal-master

C:\Users\lokesh\job-portal-master>docker tag mongo icr.io/test-app-001/repo001
```

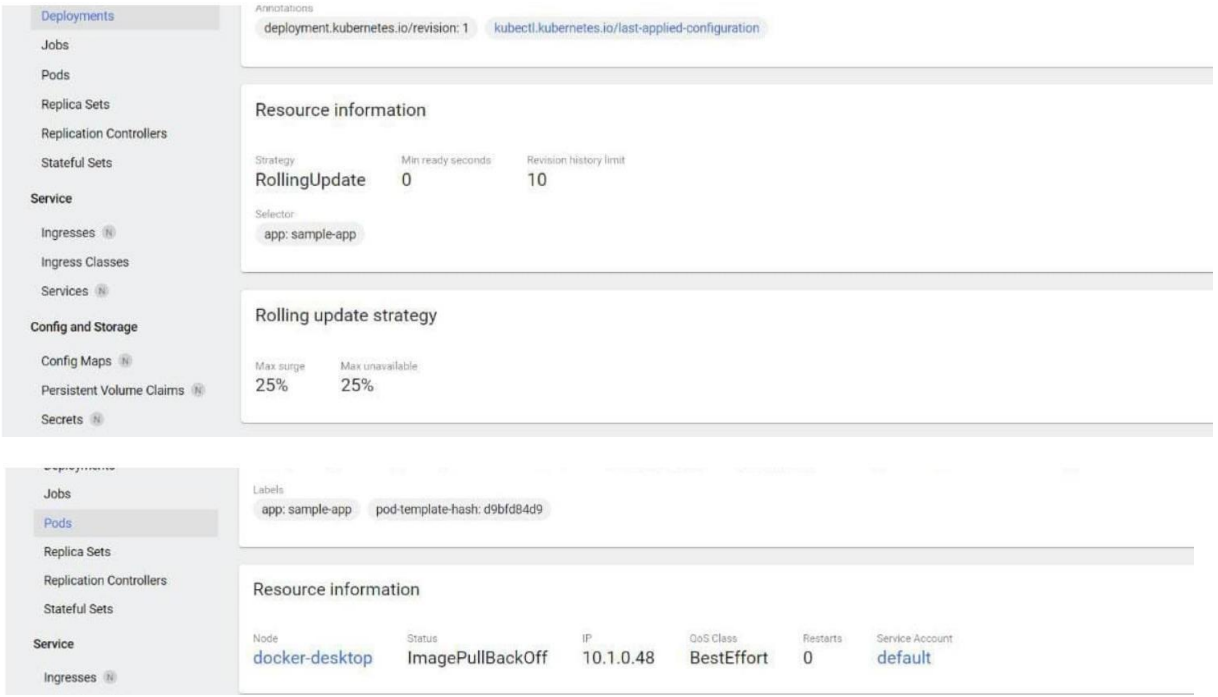
```
C:\Users\lokesh\job-portal-master>ibmcloud cr login --client docker
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK

C:\Users\lokesh\job-portal-master>docker push jp.icr.io/test-app-001/hw_repo:1
The push refers to repository [jp.icr.io/test-app-001/hw_repo]
e07ee1baac5f: Pushed
1: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\lokesh\job-portal-master>
```



4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodepor



t.


Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Annotations
deployment.kubernetes.io/revision: 1
kubectl.kubernetes.io/last-applied-configuration
Resource information
Strategy
RollingUpdate
Min ready seconds
0
Revision history limit
10
Selector
app: sample-app
Rolling update strategy
Max surge
25%
Max unavailable
25%

Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Labels
app: sample-app
pod-template-hash: d9bfd84d9
Resource information
Node
docker-desktop
Status
ImagePullBackOff
IP
10.1.0.48
QoS Class
BestEffort
Restarts
0
Service Account
default