Assignment -4

Assignment Date	13 November 2022
Student Name	HARIHARAN M
Student Roll Number	953619104014
Maximum Marks	2 Marks

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

It works!

2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
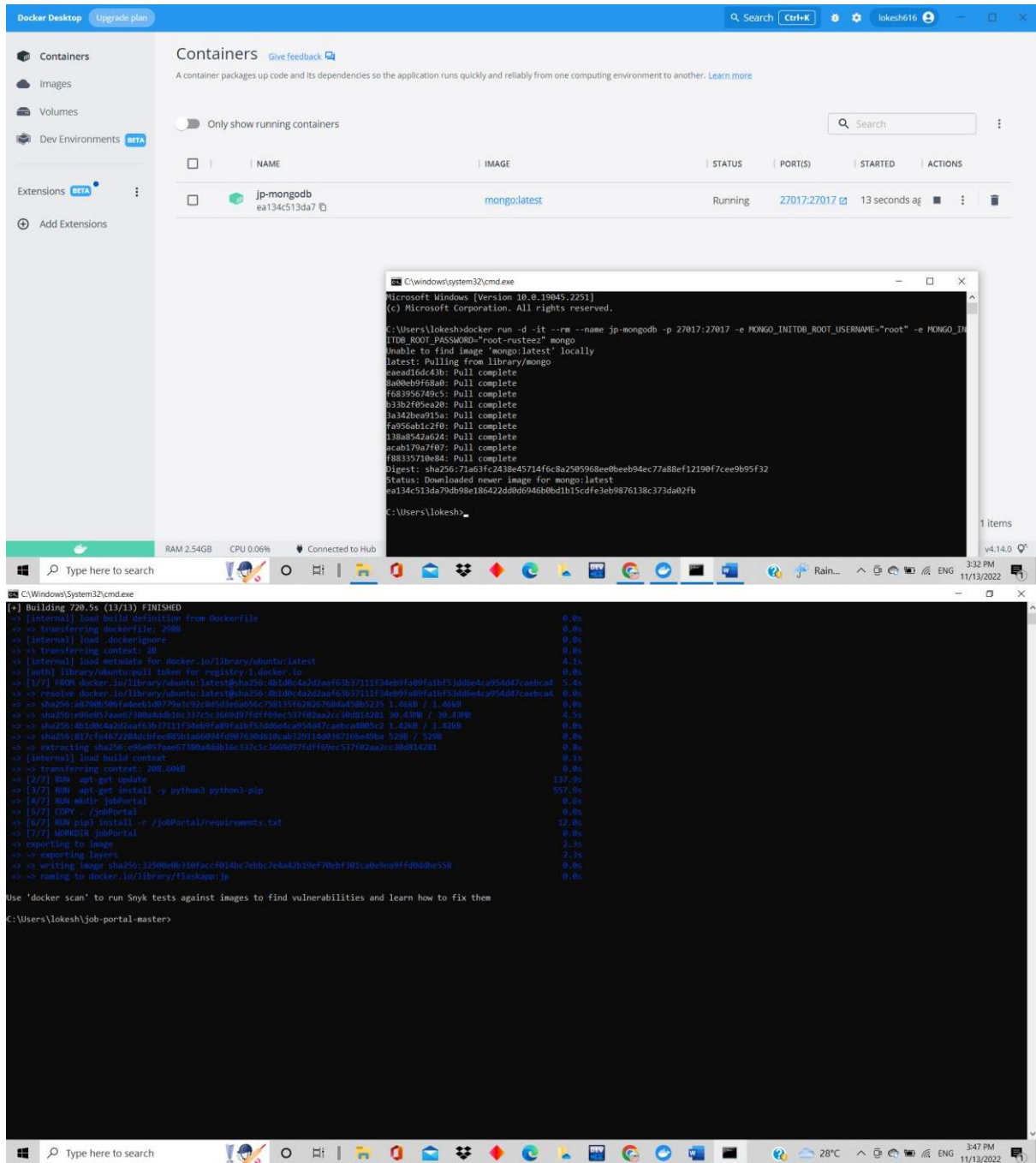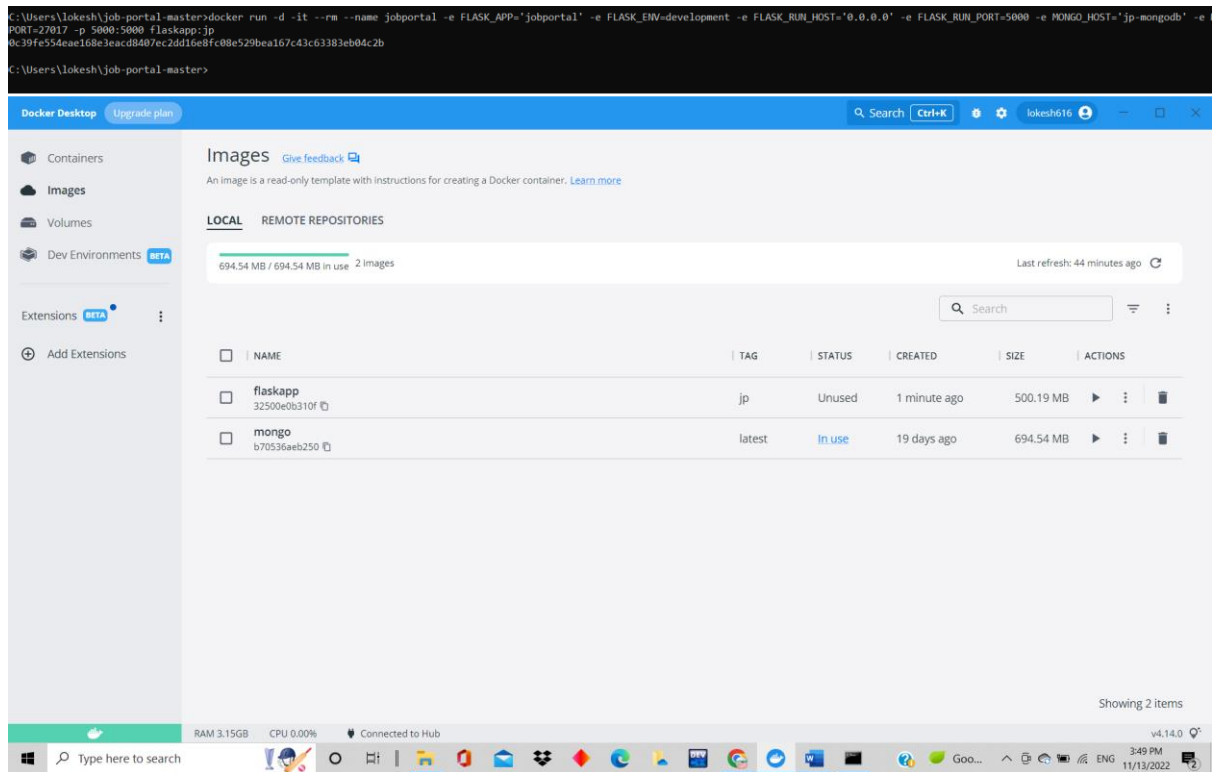
3. Create a IBM container registry and deploy helloworld app or jobportalapp.

IBM Cloud Container Registry

Repositories

Location

Tokyo

Search   Create +

	Name	Image count	Namespace	Last updated
	hw_repo jp.icr.io/test-app-001/hw_repo	1	test-app-001	415 days ago

Items per page: 25   1–1 of 1 item   1 of 1 page

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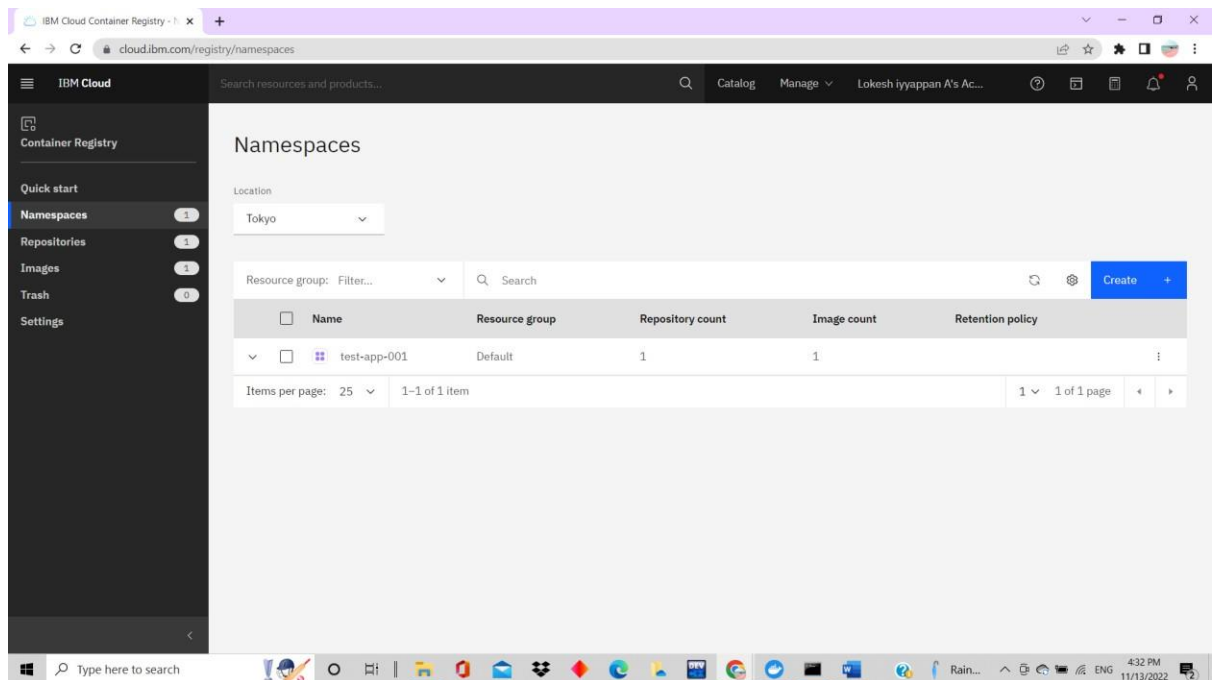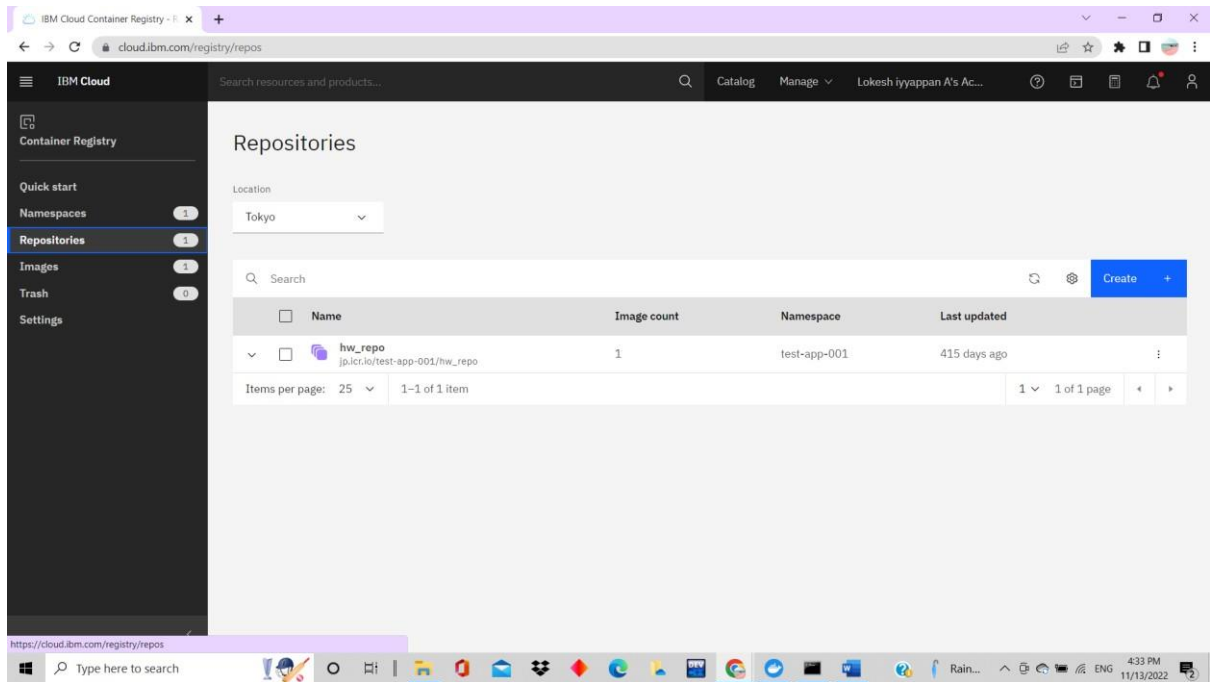
```
C:\Users\lokesh\job-portal-master>ibmcloud cr login --client docker
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

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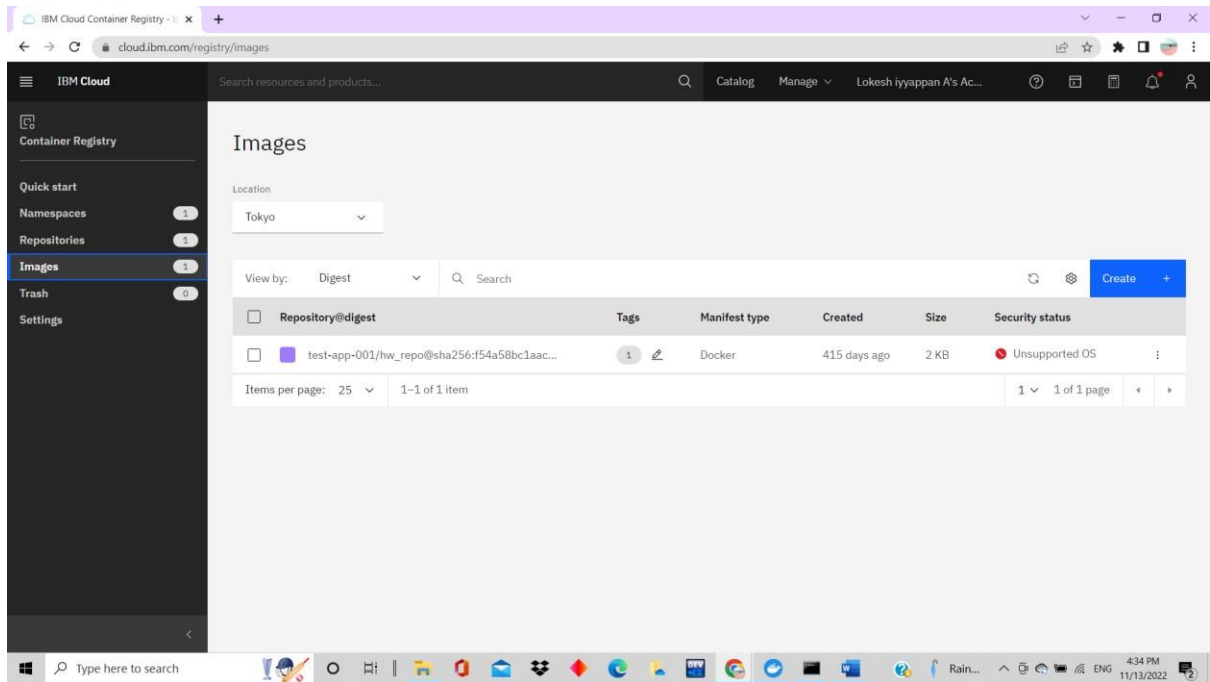
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodepor
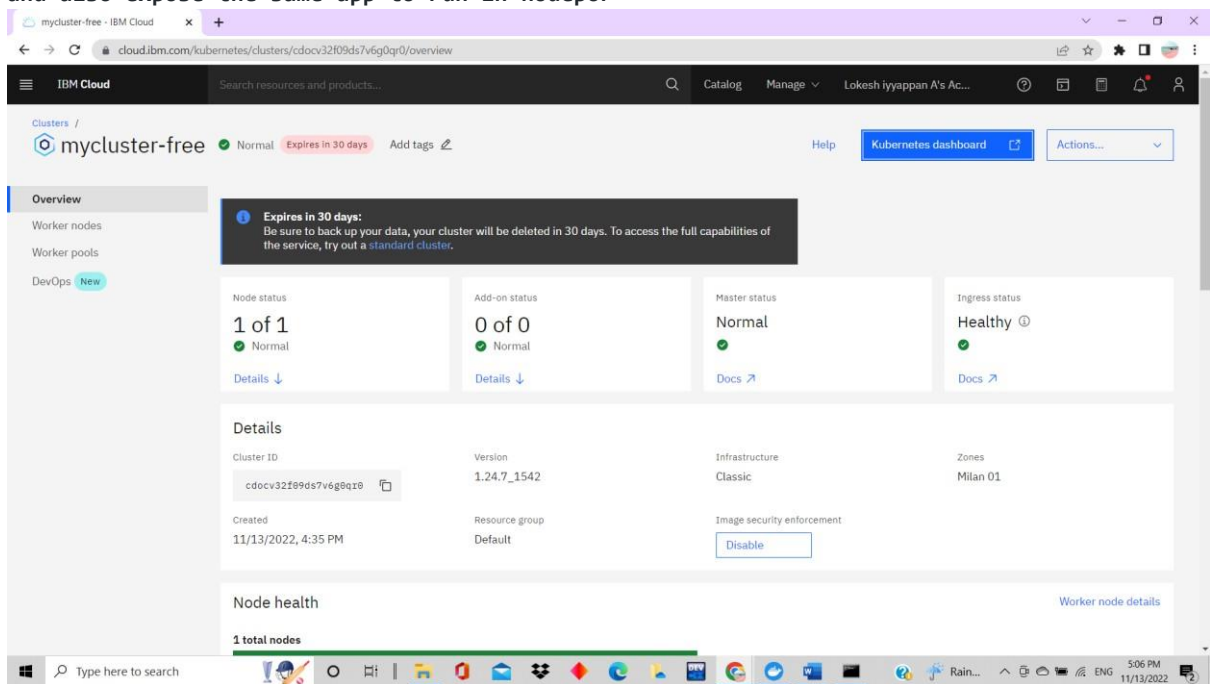
t.

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses (N)

Ingress Classes

Services (N)

Config and Storage

Config Maps (N)

Persistent Volume Claims (N)

Secrets (N)

Annotations

deployment.kubernetes.io/revision: 1   kubectl.kubernetes.io/last-applied-configuration

Resource information

Strategy   Min ready seconds   Revision history limit
RollingUpdate   0   10

Selector
app: sample-app

Rolling update strategy

Max surge   Max unavailable
25%   25%

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses (N)

Labels

app: sample-app   pod-template-hash: d9bfd84d9

Resource information

Node	Status	IP	QoS Class	Restarts	Service Account
docker-desktop	ImagePullBackOff	10.1.0.48	BestEffort	0	default