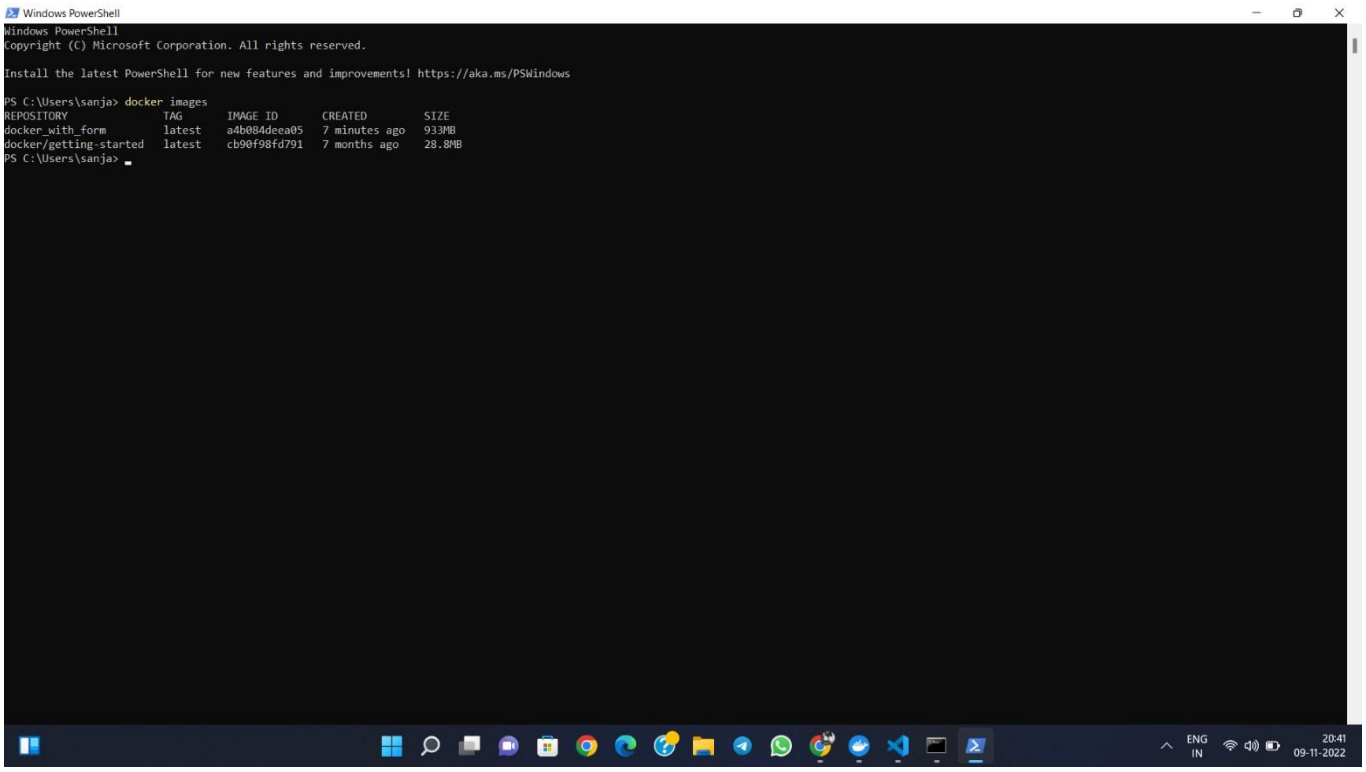
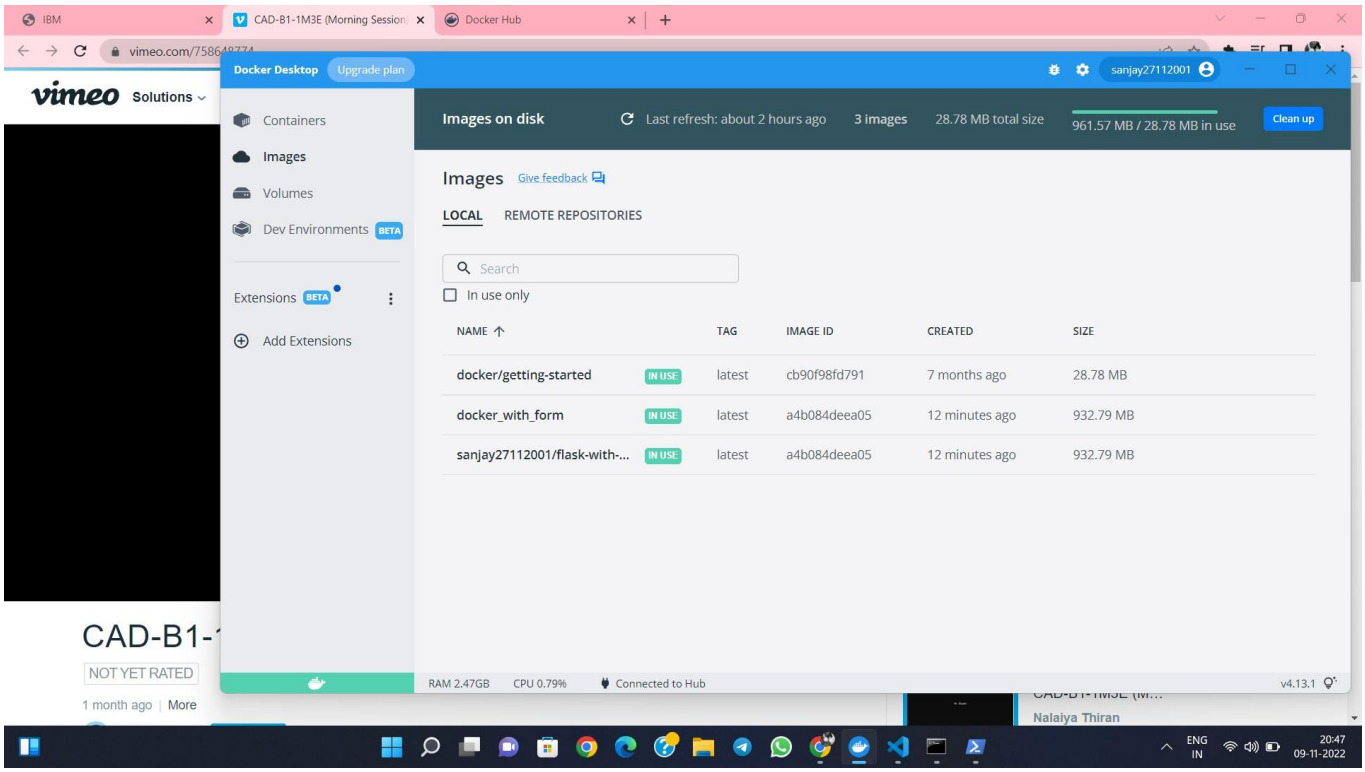
Assignment-4

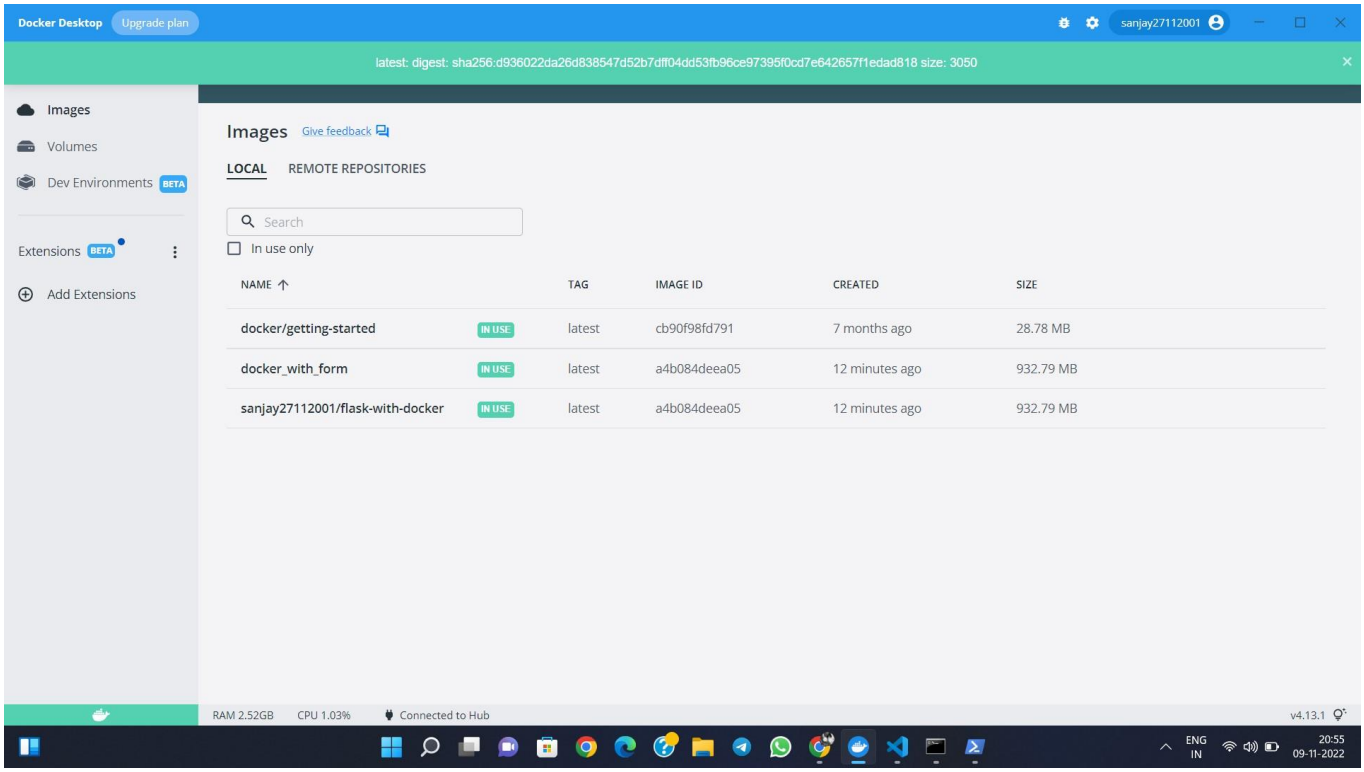
Assignment Date	29 October 2022
Student Name	Sanjay S
Student Roll Number	610519104087
Maximum Marks	2 Marks

Question:

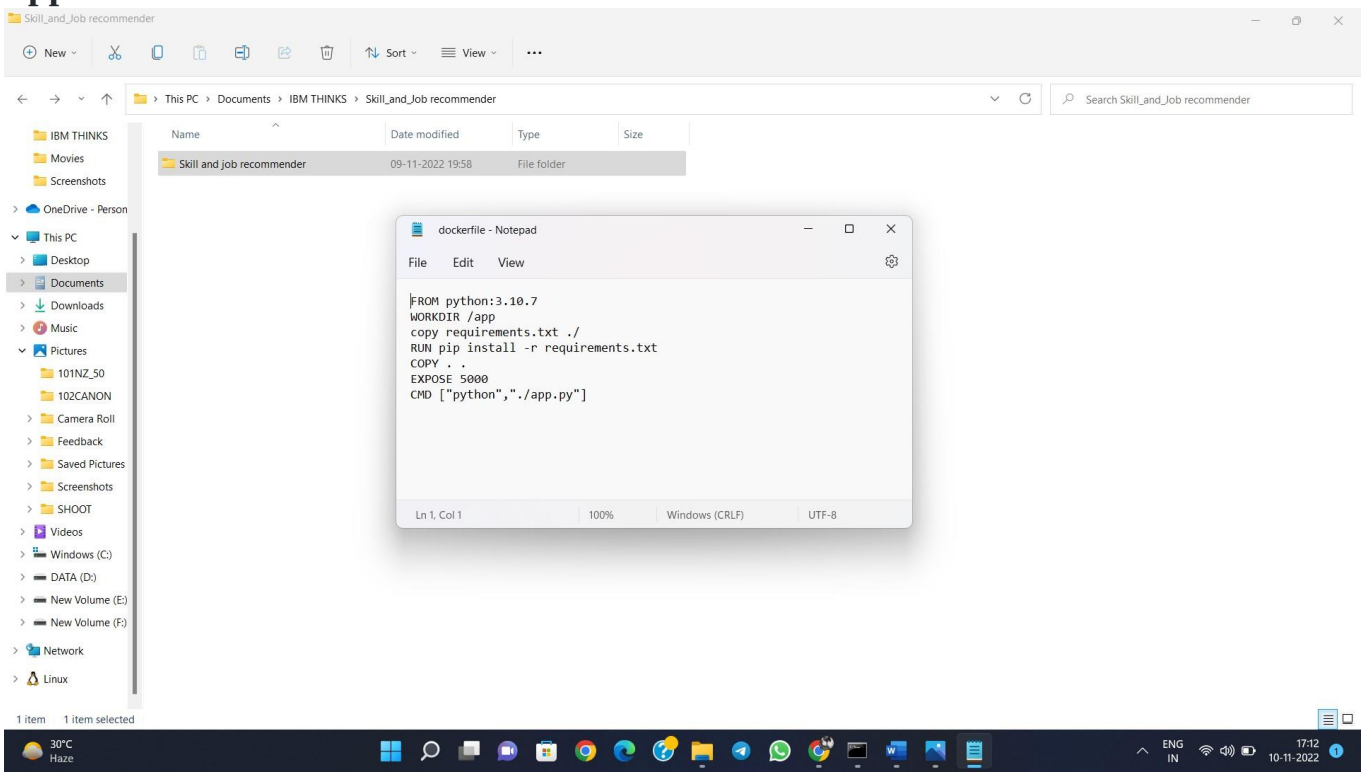
1. Pull an Image from docker hub and run it in docker playground.



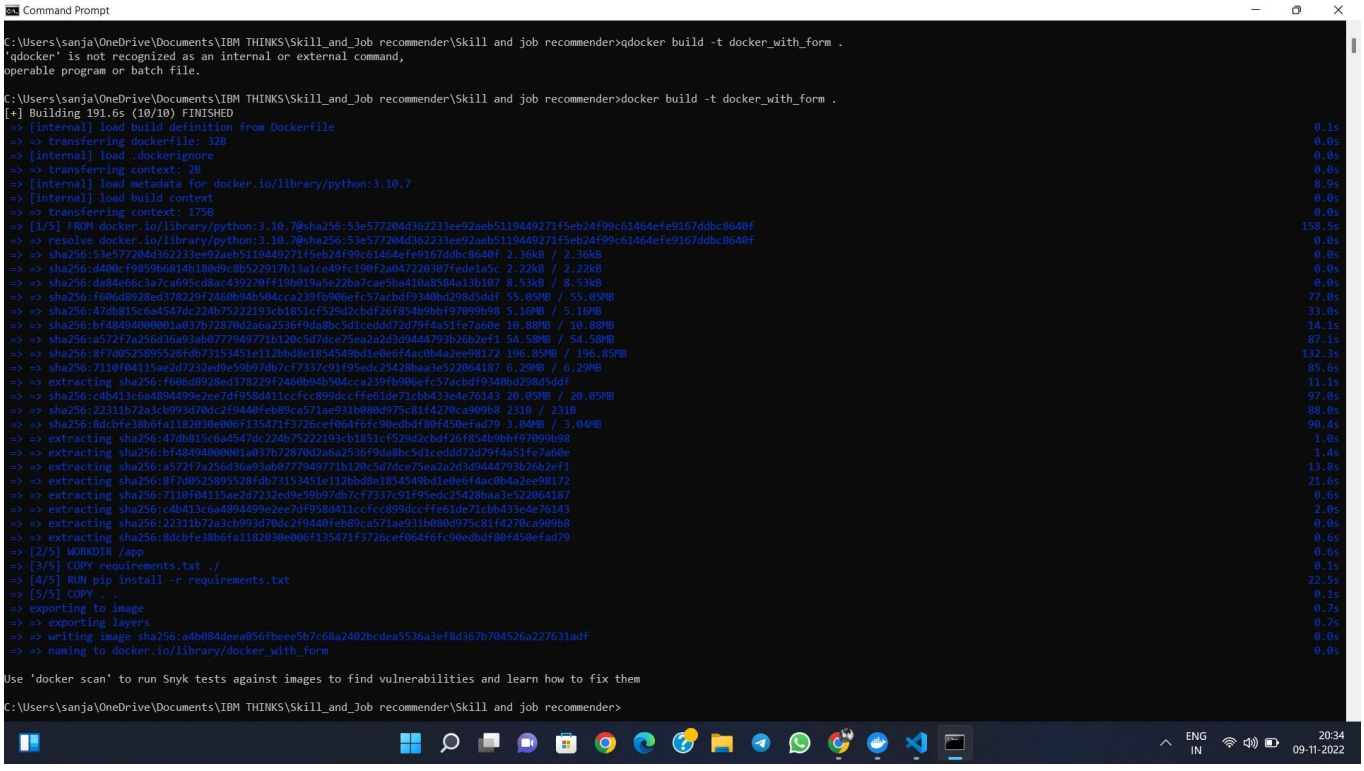

IBM
CAD-B1-1M3E (Morning Session)
Docker Hub
vimeo.com/758648774
vimeo Solutions
Docker Desktop
Upgrade plan
sanjay27112001
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Images on disk
Last refresh: about 2 hours ago
3 images
28.78 MB total size
961.57 MB / 28.78 MB in use
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
docker/getting-started
IN USE
latest
cb90f98fd791
7 months ago
28.78 MB
docker_with_form
IN USE
latest
a4b084deea05
12 minutes ago
932.79 MB
sanjay27112001/flask-with-...
IN USE
latest
a4b084deea05
12 minutes ago
932.79 MB
RAM 2.47GB
CPU 0.79%
Connected to Hub
v4.13.1
CAD-B1-
NOT YET RATED
1 month ago
More
Nalaiya Thiran
ENG
IN
20:47
09-11-2022


Docker Desktop
Upgrade plan
sanjay27112001
latest: digest: sha256:d936022da26d838547d52b7dff04dd53fb96ce97395f0cd7e642657f1edad818 size: 3050
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
docker/getting-started
IN USE
latest
cb90f98fd791
7 months ago
28.78 MB
docker_with_form
IN USE
latest
a4b084deea05
12 minutes ago
932.79 MB
sanjay27112001/flask-with-docker
IN USE
latest
a4b084deea05
12 minutes ago
932.79 MB
RAM 2.52GB
CPU 1.03%
Connected to Hub
v4.13.1
ENG
IN
20:55
09-11-2022

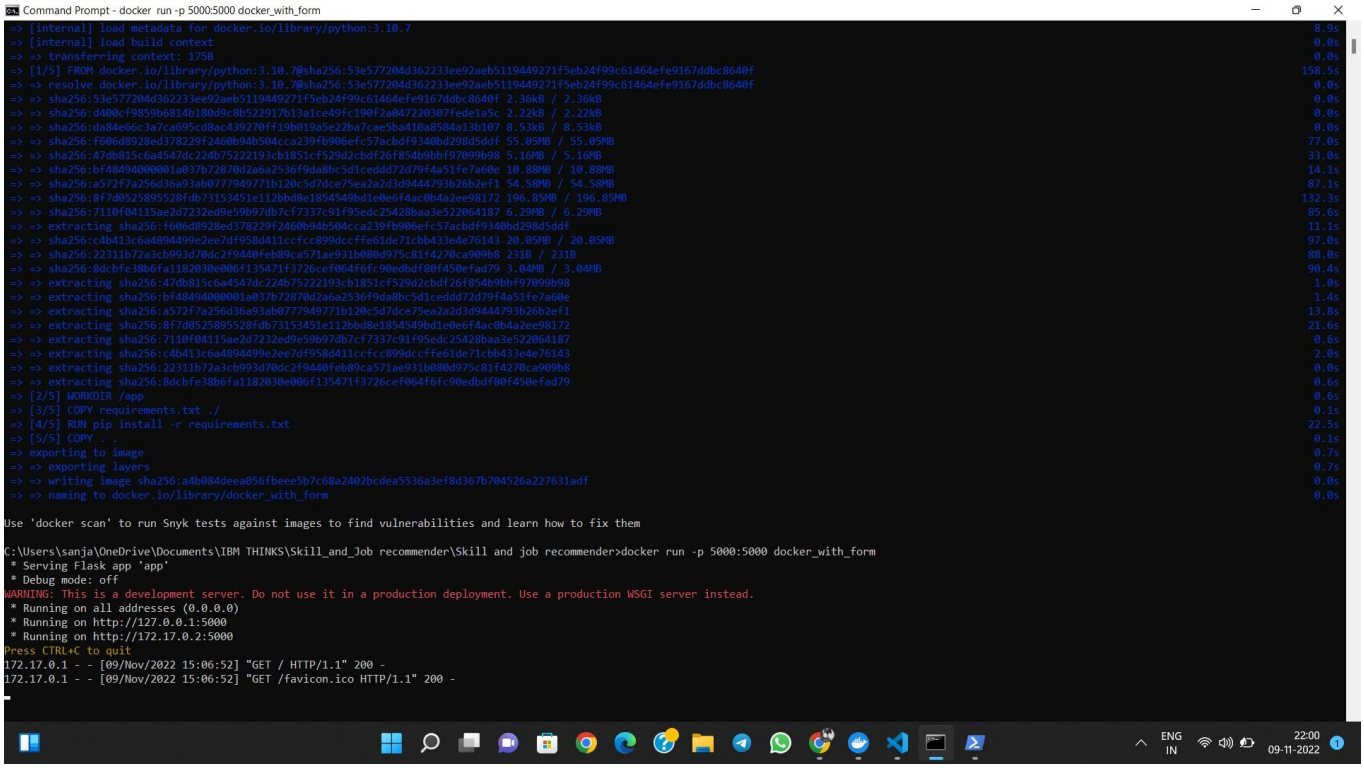
2.Create a docker file for the job portal application and deploy it in Docker desktop application.



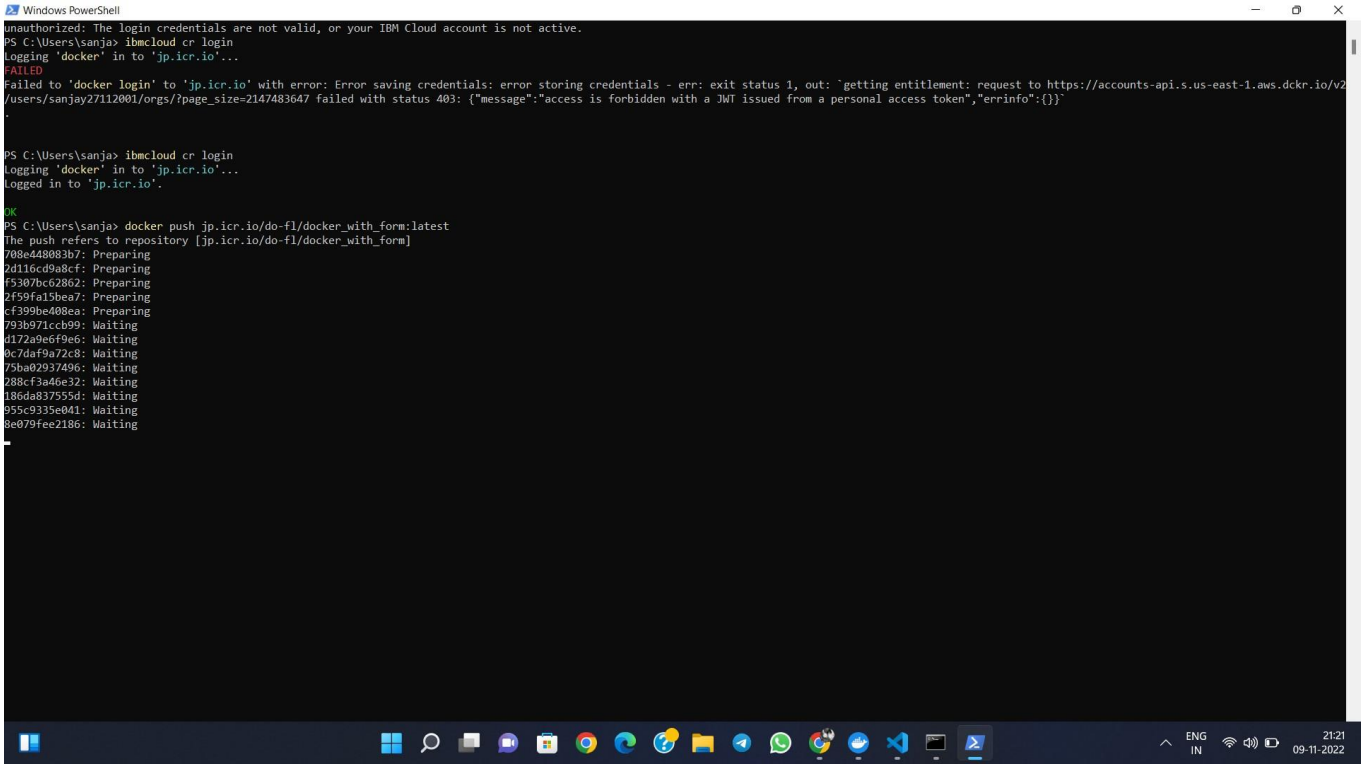
Deploy in docker application

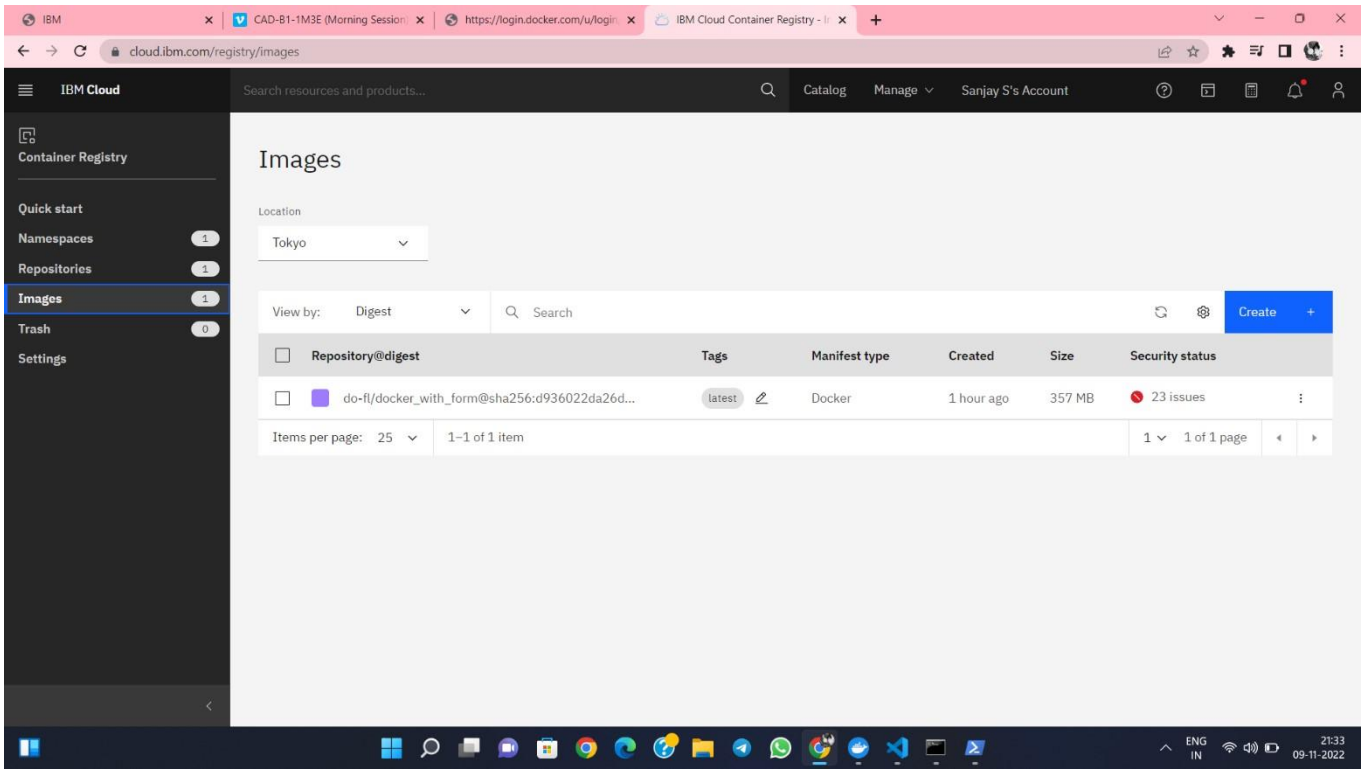


Running in docker desktop

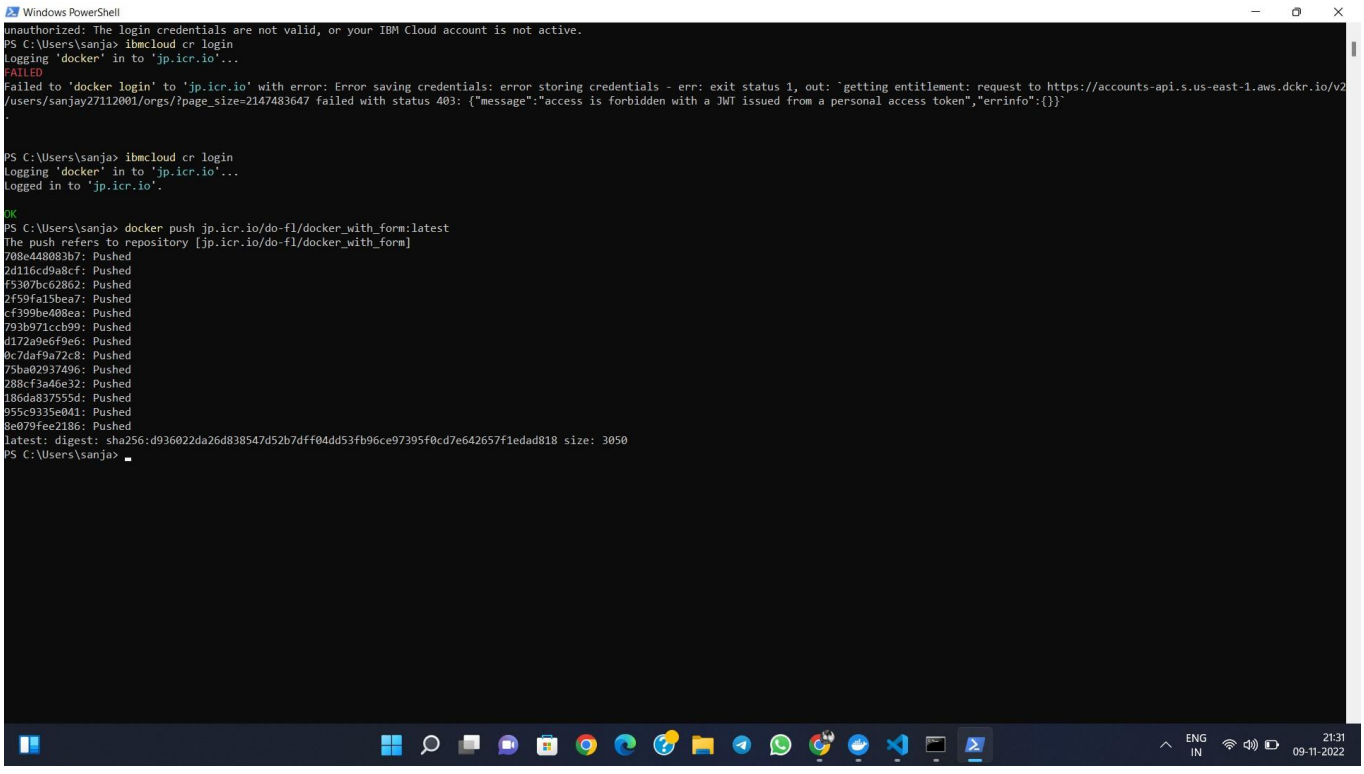


3. Create a IBM container registry and deploy hello world app or job portal app.



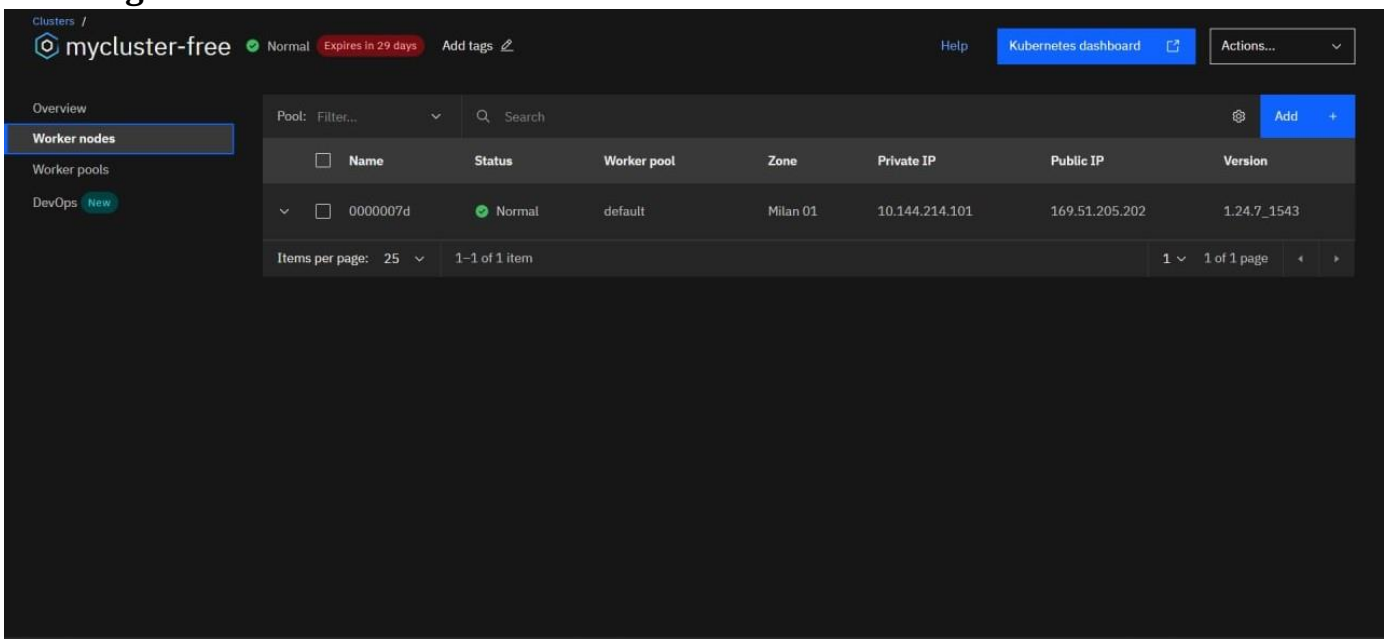


Deploy hello world or job portal

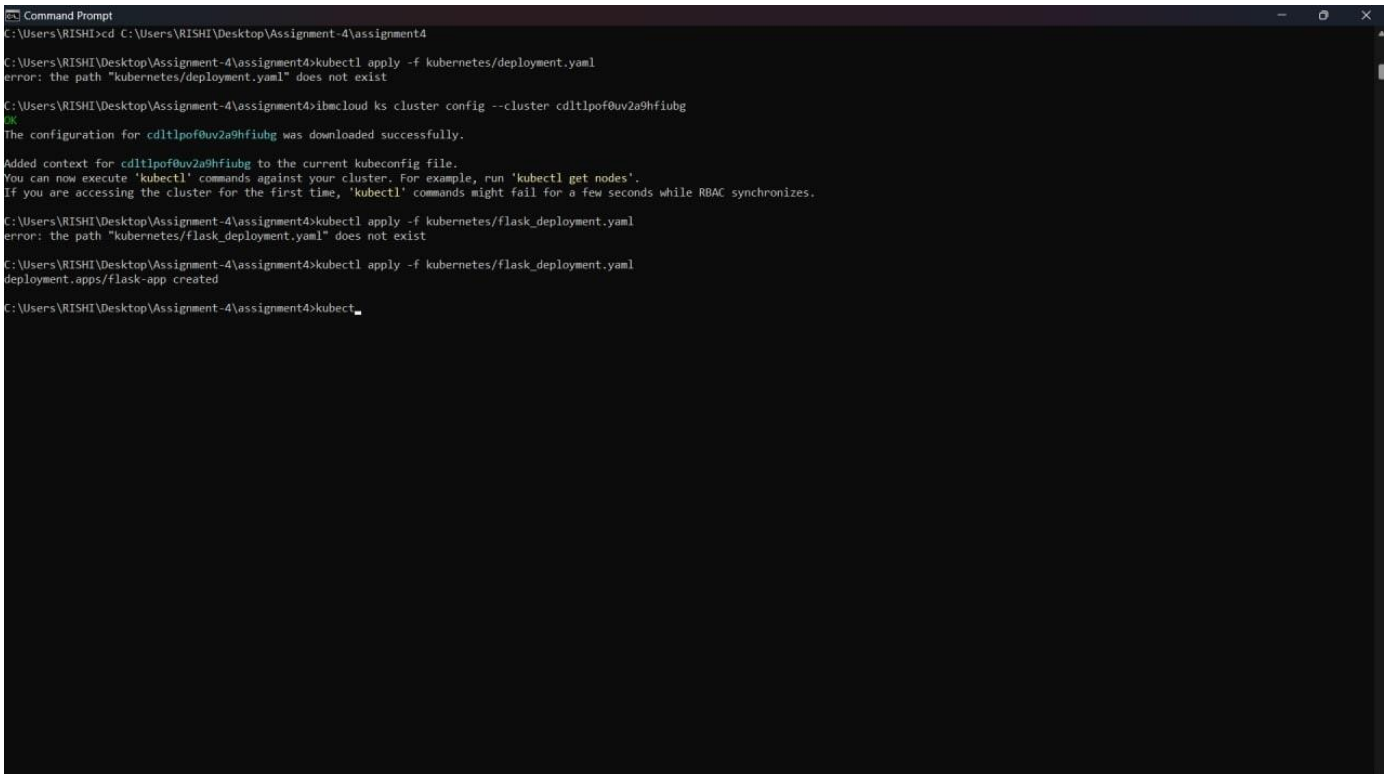


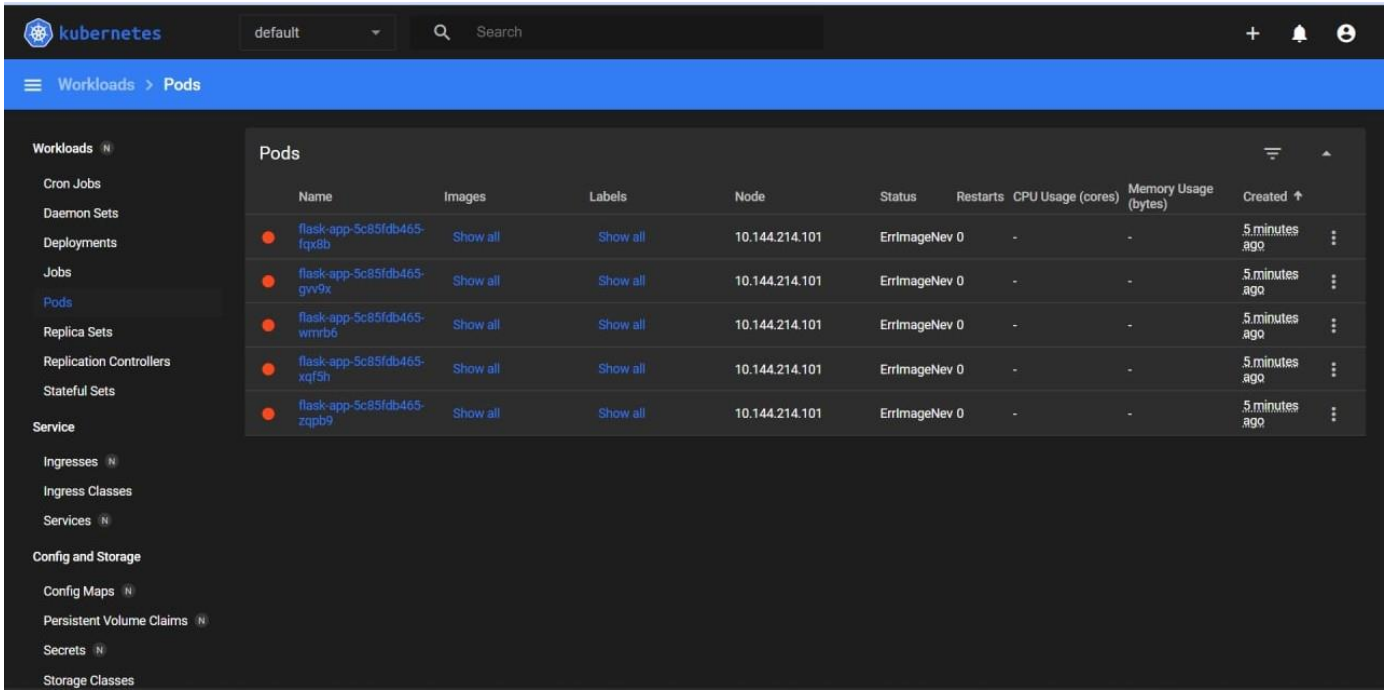
4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating a Kubernetes cluster in IBM cloud



Expose the same app to run in noteport




kubernetes
default
Search
Workloads > Pods
Workloads N
Cron Jobs
Daemon Sets
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
Storage Classes
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
flask-app-5c85fdb465-fqx8b
flask-app-5c85fdb465-gvv9x
flask-app-5c85fdb465-wmrb6
flask-app-5c85fdb465-xqf5h
flask-app-5c85fdb465-zqpb9
Show all
10.144.214.101
ErrImageNev
0
-
5 minutes ago