ASSIGNMENT 4

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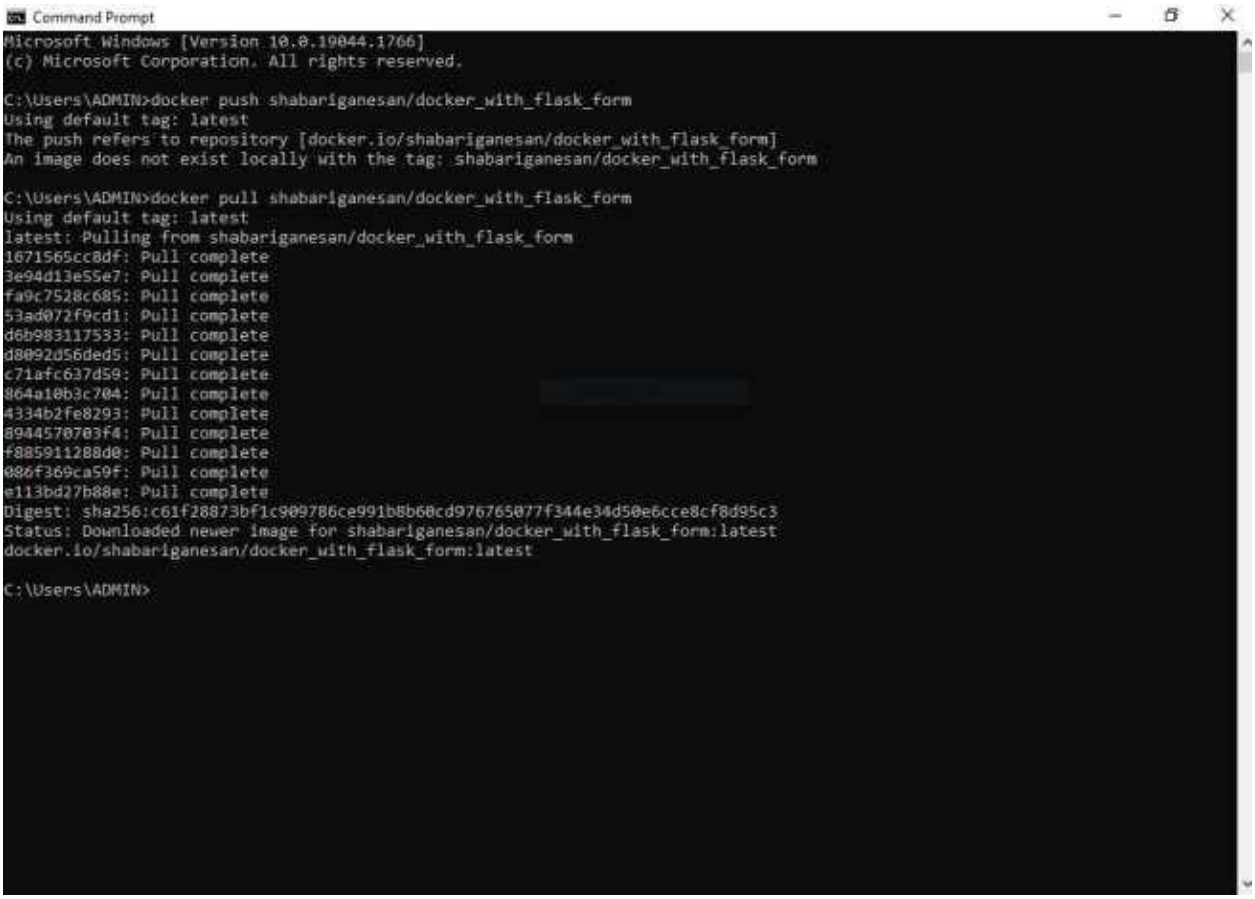
Batch No	**B9 - 3A5E**
Project Name	**INVENTORY MANAGEMENT SYSTEM FOR RETAILERS**
Team ID	**PNT2022TMID31769**

Question-1:

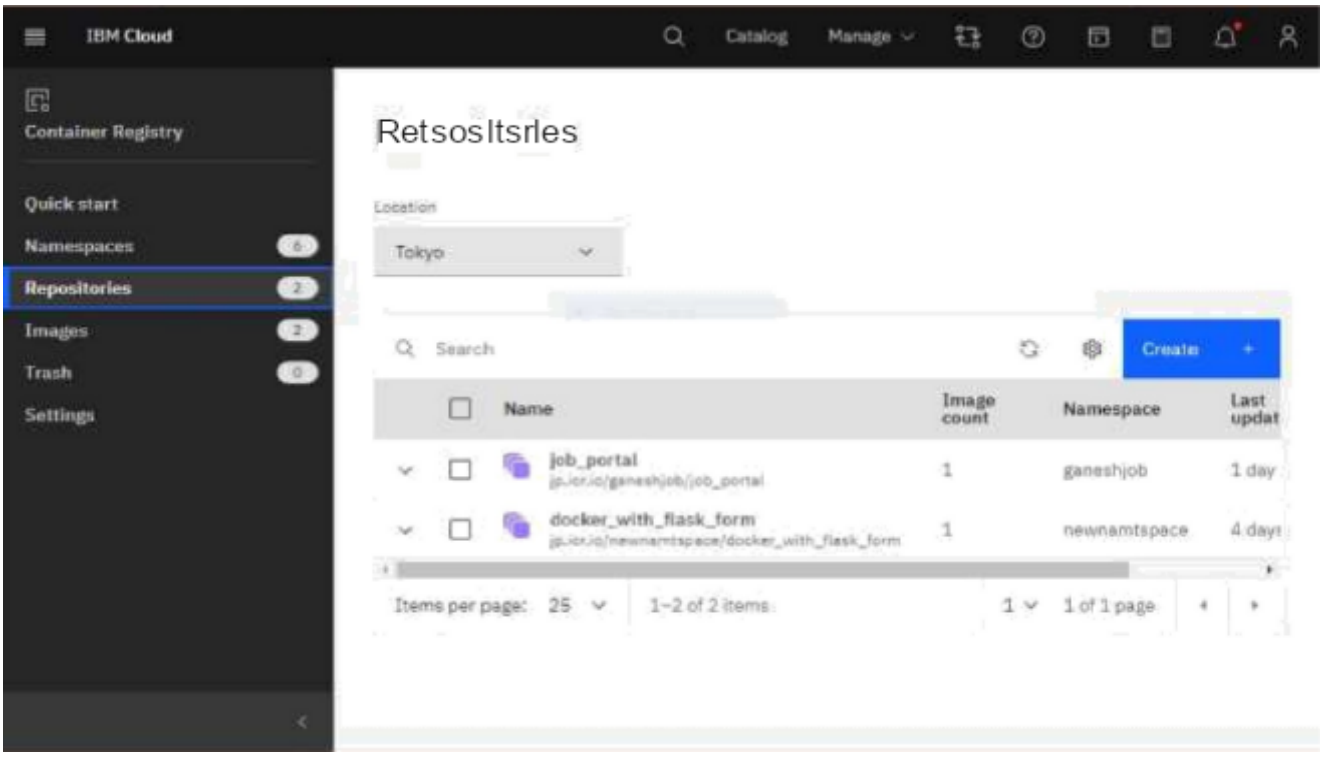
pull an image from docker hub and run it in

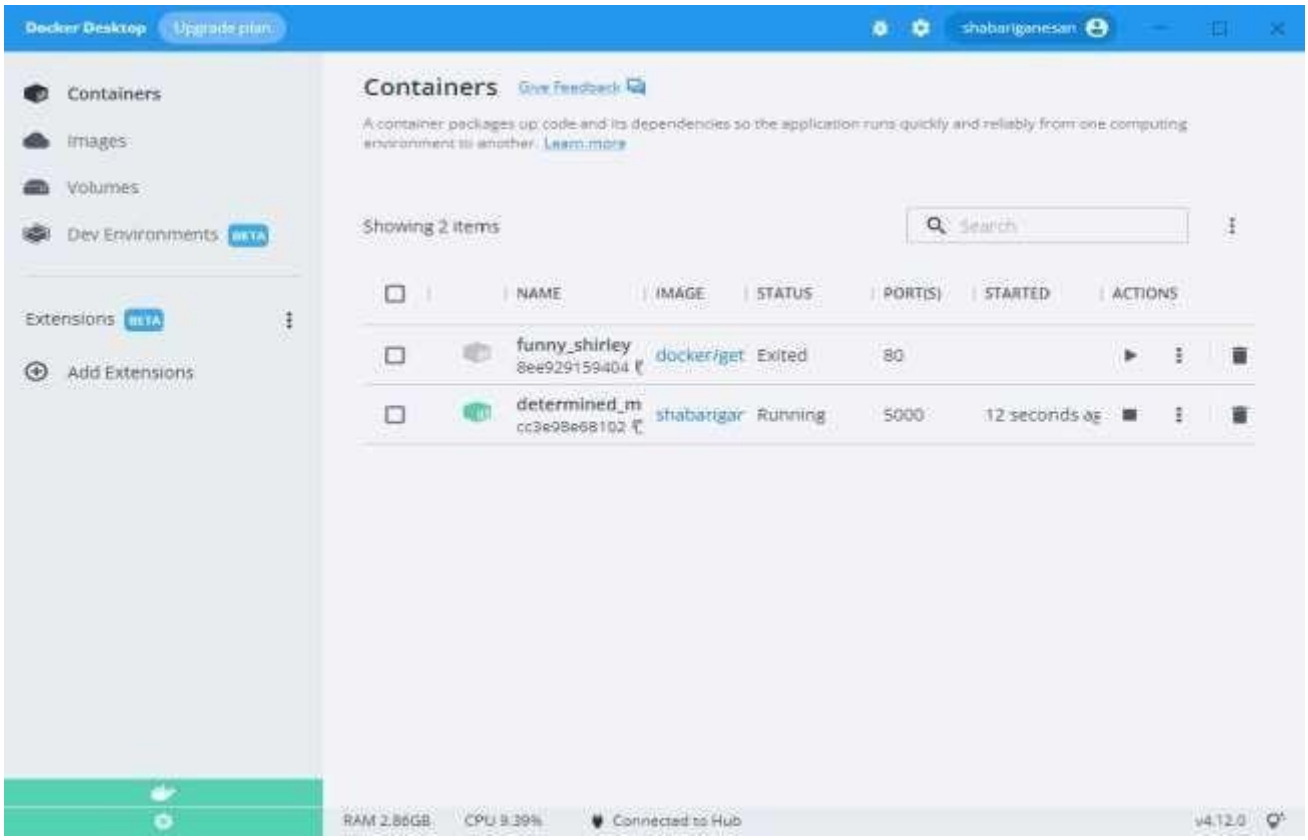
docker playground.pullan image form

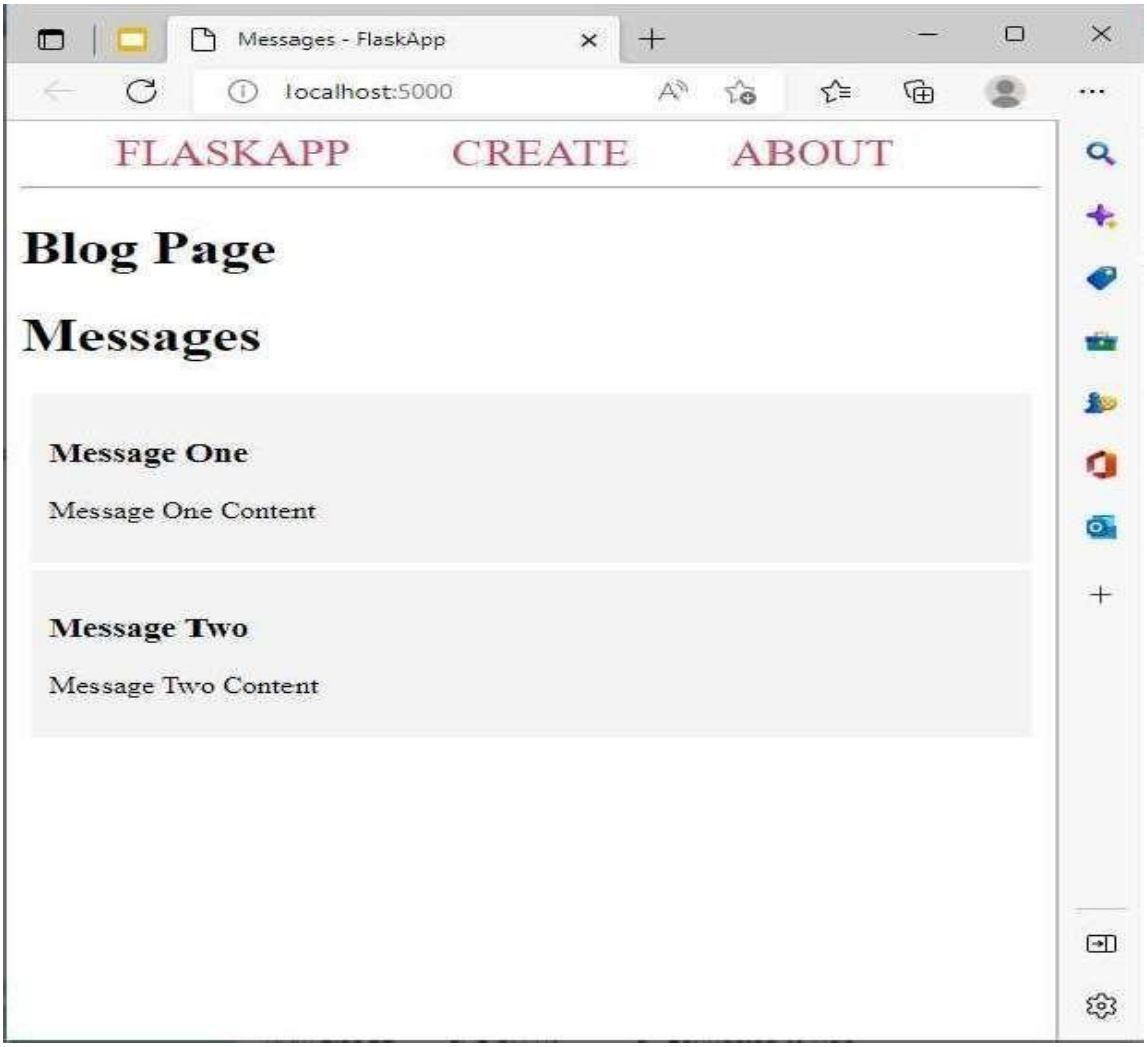
dockerhub



runtitindockerplayground


IBM Cloud
Catalog
Manage
Container Registry
Quick start
Namespaces 6
Repositories 2
Images 2
Trash 0
Settings
RetsosItsrles
Location
Tokyo
Search
Create
Name
Image count
Namespace
Last updat
job_portal
1
ganeshjob
1 day
docker_with_flask_form
1
newnamtspace
4 days
Items per page: 25
1–2 of 2 items
1 of 1 page

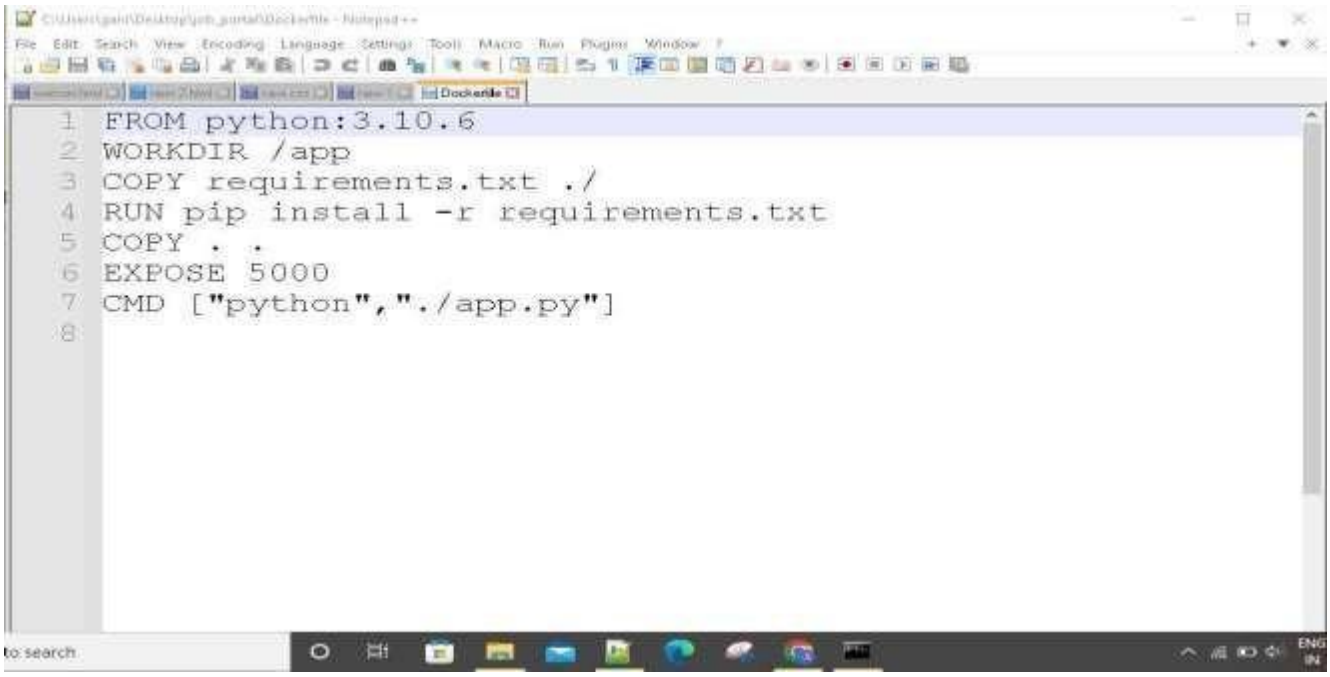

Docker Desktop
Upgrade plan
shabariganesan
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Showing 2 items
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
funny_shirley
8ee929159404
docker/get
Exited
80
determined_m
cc3e98e68102
shabarigar
Running
5000
12 seconds
RAM 2.86GB
CPU 9.39%
Connected to Hub
v4.12.0



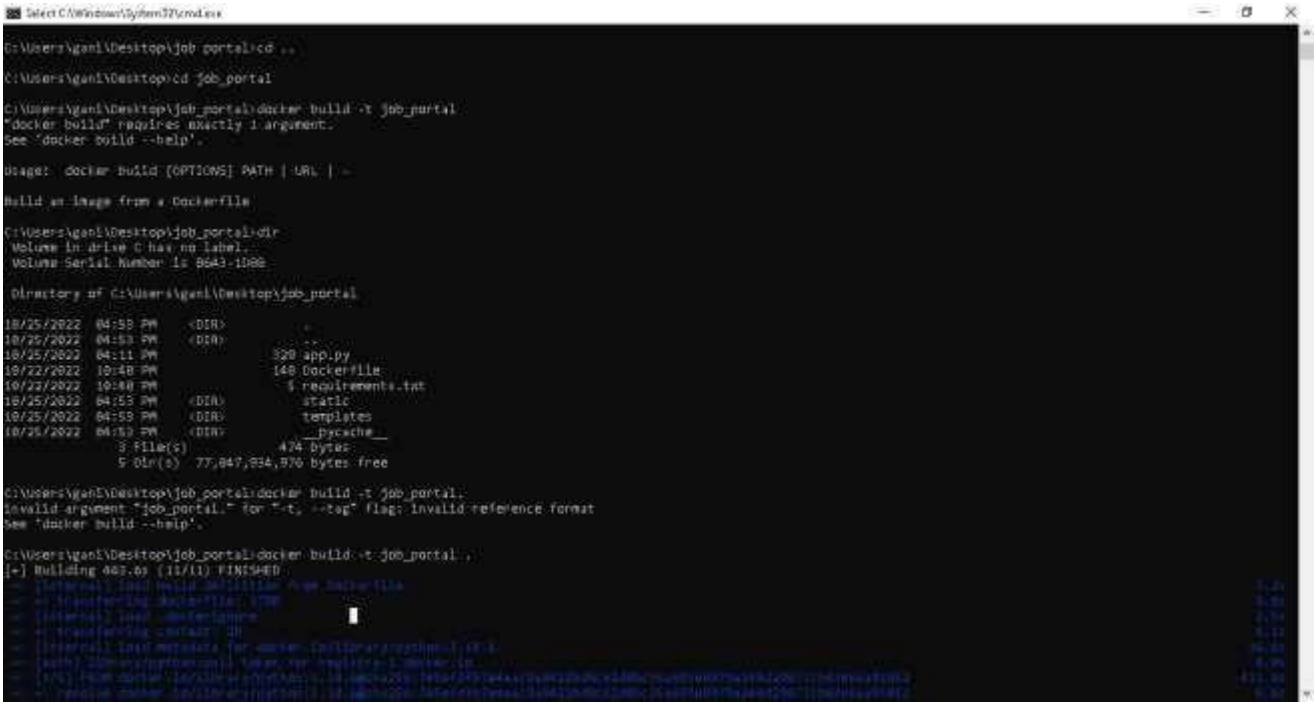
Question-2:

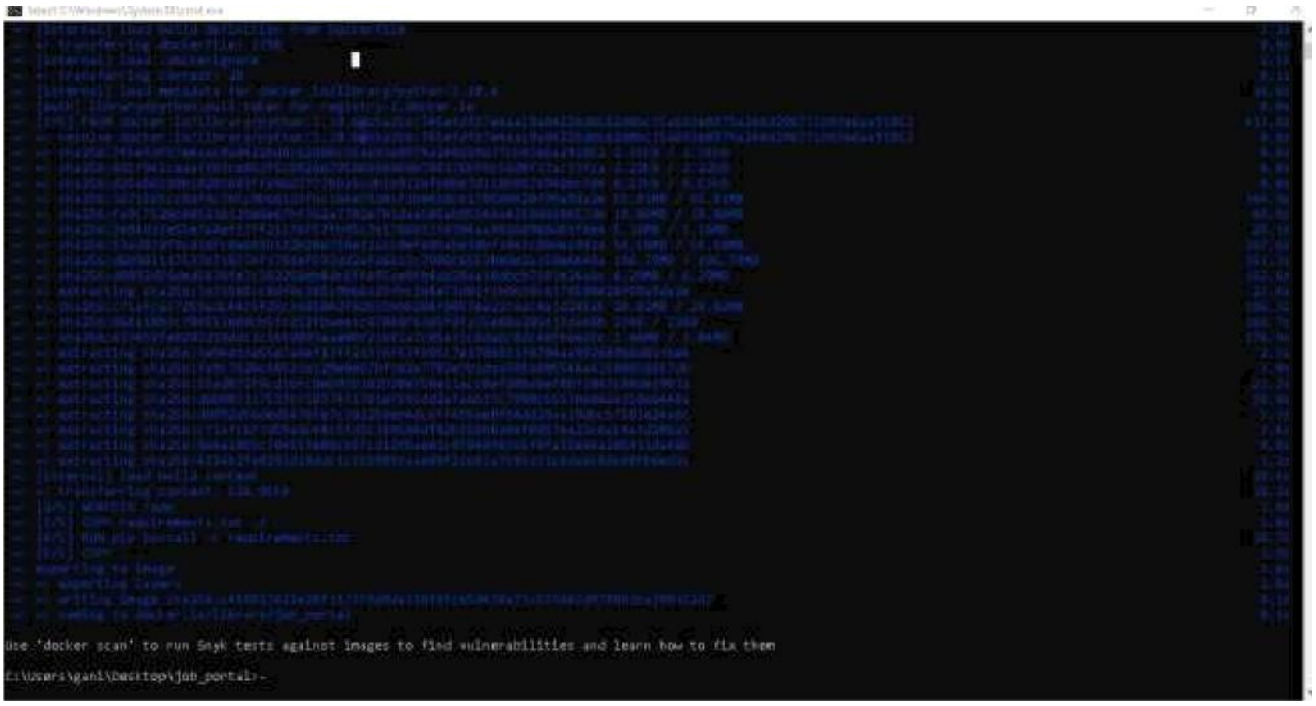
Createadockerfileforthejobportalapplicationanddeployitindockerapplication.

Creatingadockerfileforthejobportalapplication

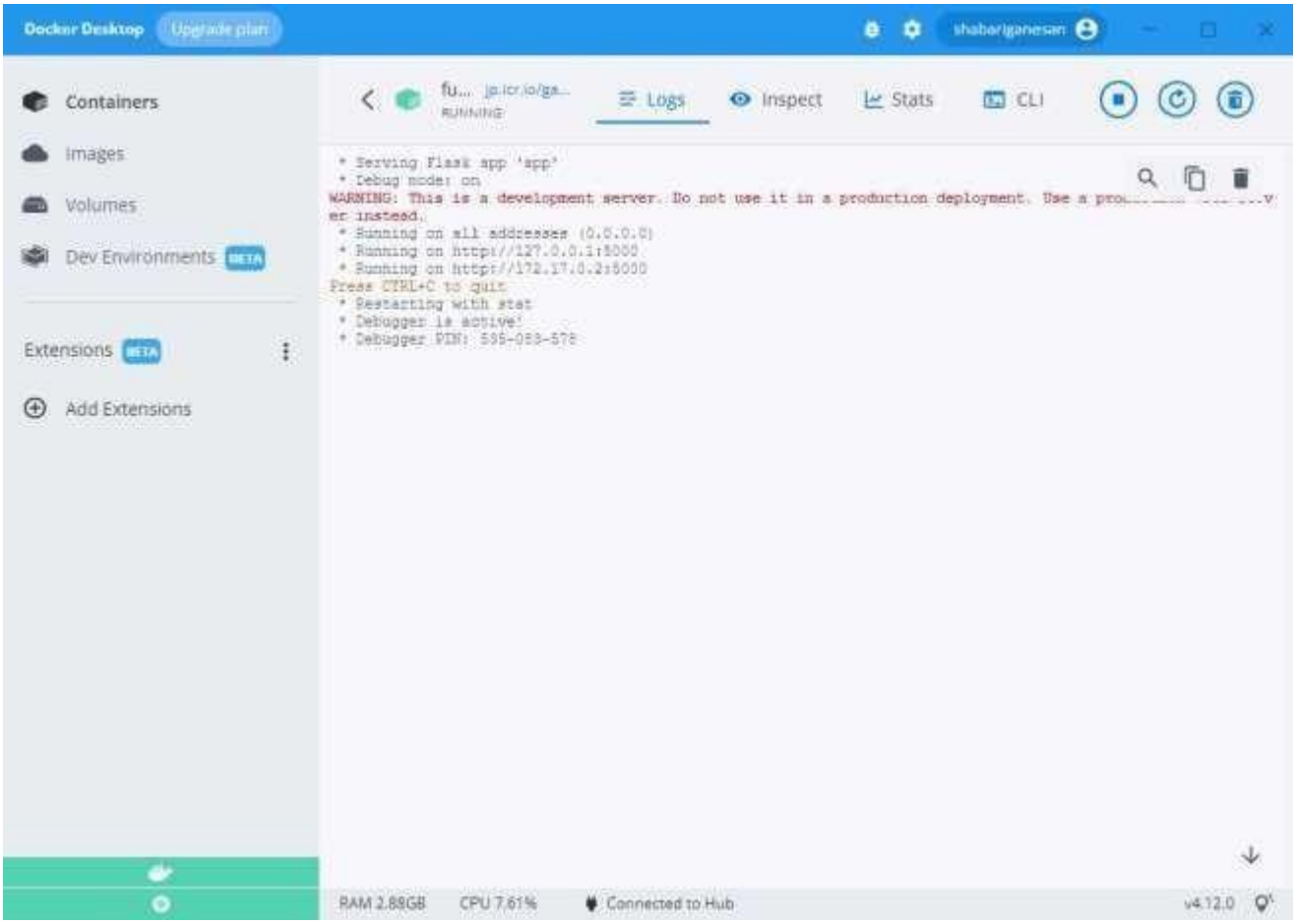


deployinindokcerapplication





Cc rat ¿zi n e r S

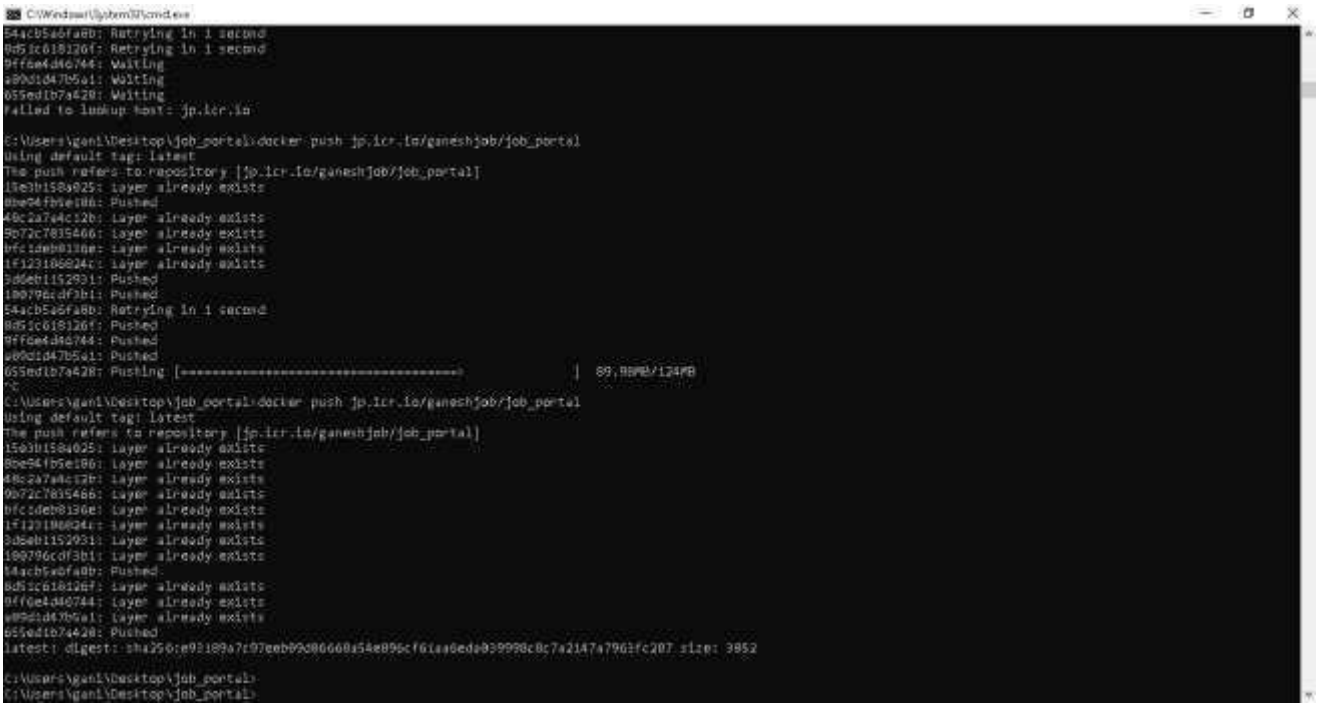


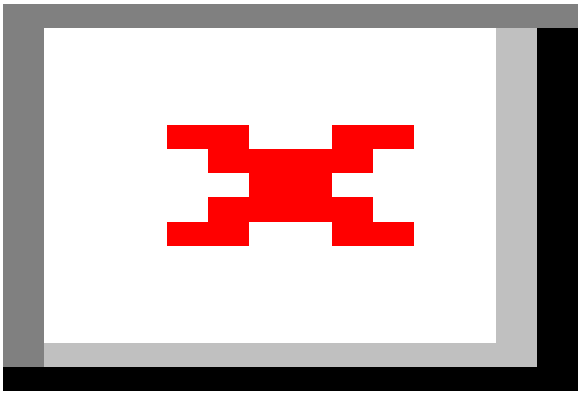
runningindockerdesktop1

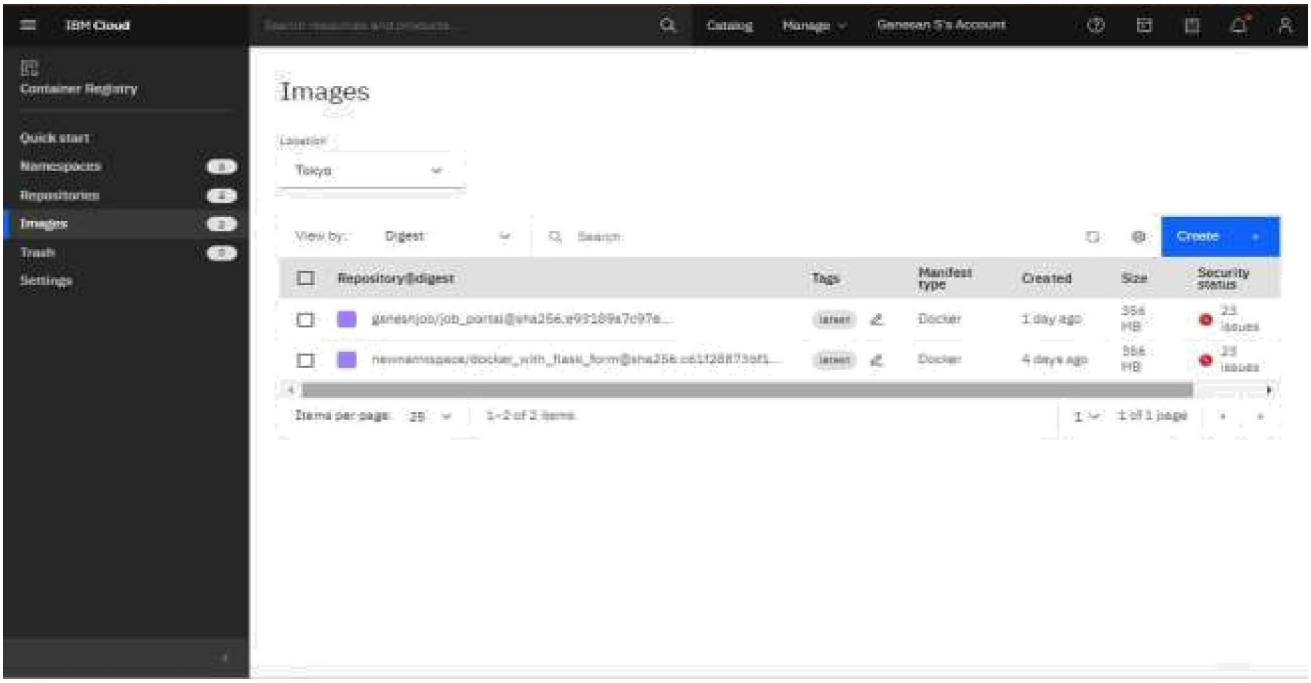
Question-3:CreateaIbm containerregistry anddeploy helloworldapp orjobportalapp

createa ibm container registry

deployhelloworldorjobportal

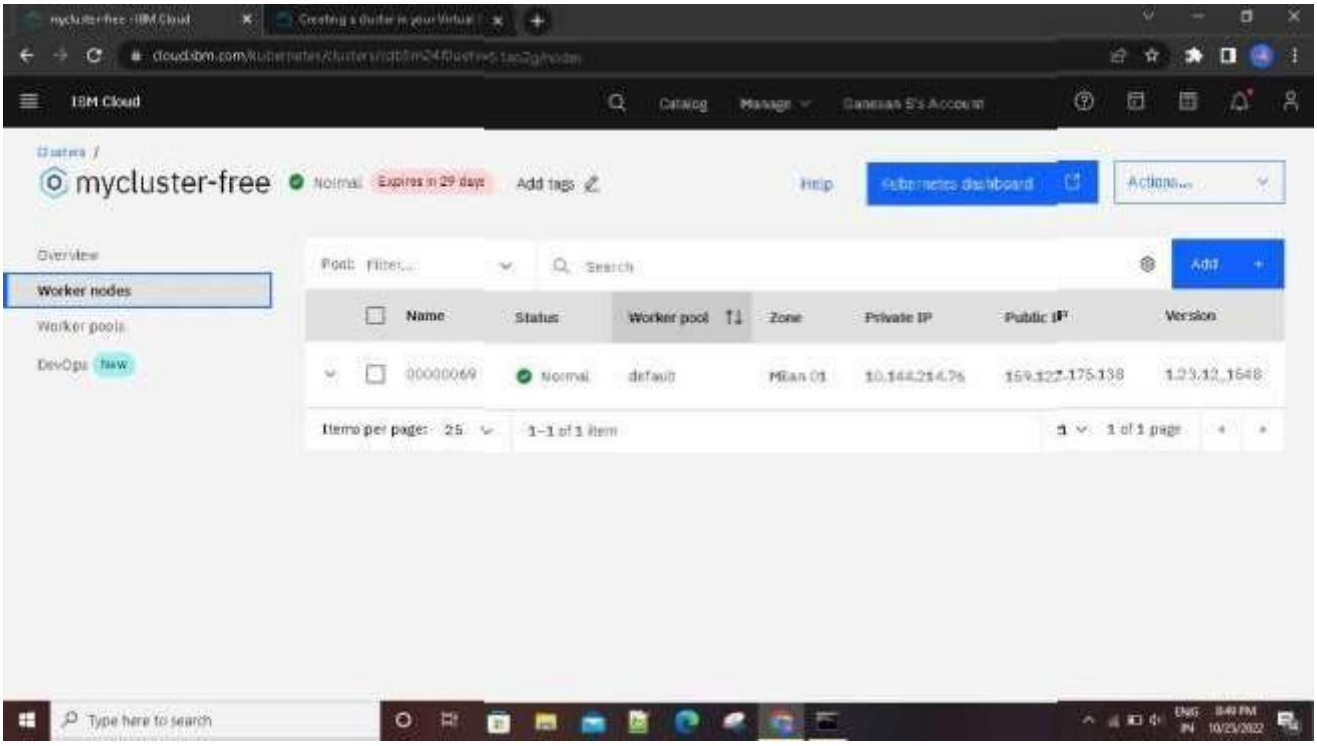




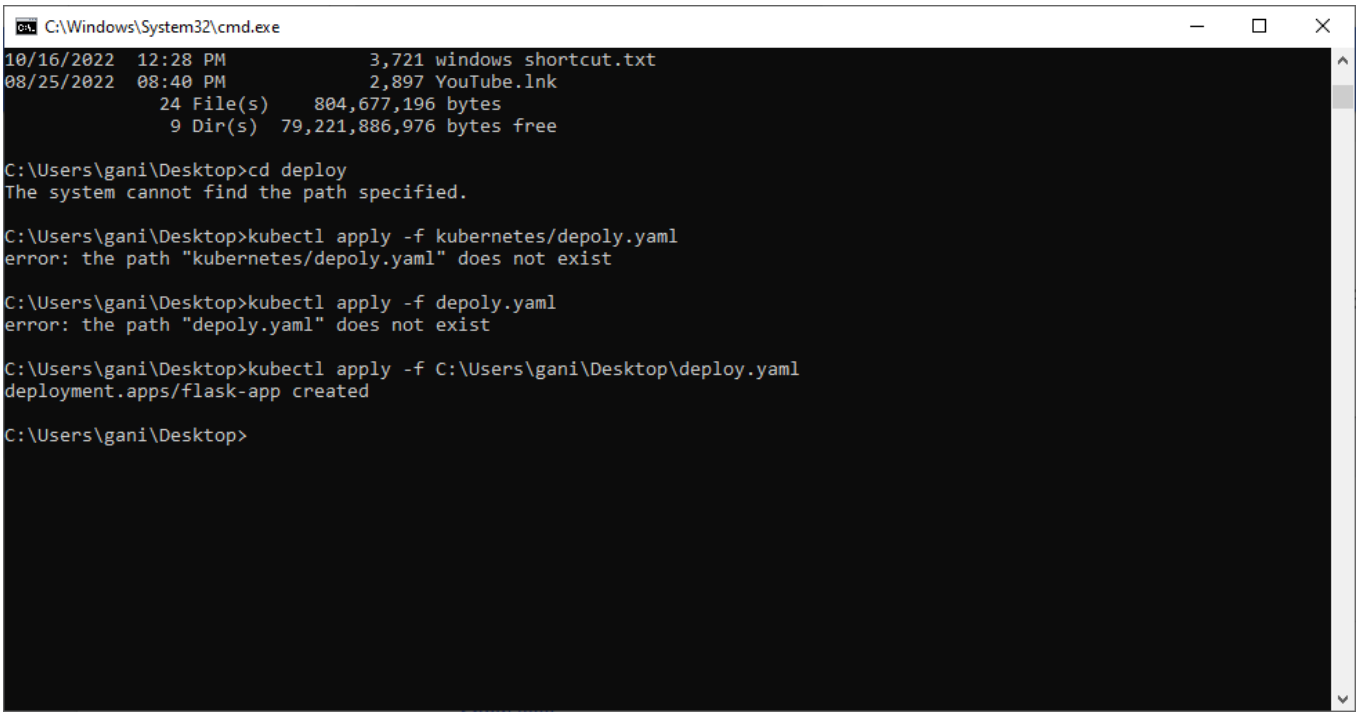


Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also exposethesameapp to run in noteport

Creatingakubernetesclusterinibmcloud



deployhelloworldimageorjobportalimageandalsoexposethesameapptoruninnoteport



Search

Workloads > Pods

Deployment

Daemon Sets

Wa1lin-gformoredalaadisplaycharl...Walingformoredata adisplaychart...

Running

Services

```
ving Flask app 'app'
ug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
nning on all addresses (0.0.0.0)
nning on http://127.0.0.1:5000
nning on http://172.30.23.11:5000
Press CTRL+C to quit
tarting with stat
ugger is active!
ugger PIN: 110-487-149
```

Workloads > Pods > flask-app-79447b5c8c-4d8ww > Logs

C:\Windows\System32\cmd.exe

```
C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask_service
The Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DNS-1035 label must consist of lower case alphanumeric characters or '-', start
 with an alphabetic character, and end with an alphanumeric character (e.g. 'my-name',  or 'abc-123', regex used for validation is '[a-z]([-a-z0-9]*[a-z0-9])?')

C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask_service
The Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DNS-1035 label must consist of lower case alphanumeric characters or '-', start
 with an alphabetic character, and end with an alphanumeric character (e.g. 'my-name',  or 'abc-123', regex used for validation is '[a-z]([-a-z0-9]*[a-z0-9])?')

C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask_service
The Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DNS-1035 label must consist of lower case alphanumeric characters or '-', start
 with an alphabetic character, and end with an alphanumeric character (e.g. 'my-name',  or 'abc-123', regex used for validation is '[a-z]([-a-z0-9]*[a-z0-9])?')

C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask-service
Error from server (AlreadyExists): services "flask-service" already exists

C:\Windows\system32>
C:\Windows\system32>kubectl -n kubernetes-dashboard get depploy
^C
C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl proxy
Starting to serve on 127.0.0.1:8001
^C
C:\Windows\system32>kubectl -n kubernetes-dashboard get deplou
^C
C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl -n kubernetes-dashboard get pods
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask-service
Error from server (AlreadyExists): services "flask-service" already exists

C:\Windows\system32>kubectl get ing
NAME                CLASS    HOSTS   ADDRESS   PORTS   AGE
flask-app-ingress   <none>   *                 80      27m

C:\Windows\system32>kubectl get svc
NAME                TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
```