Assignment-4

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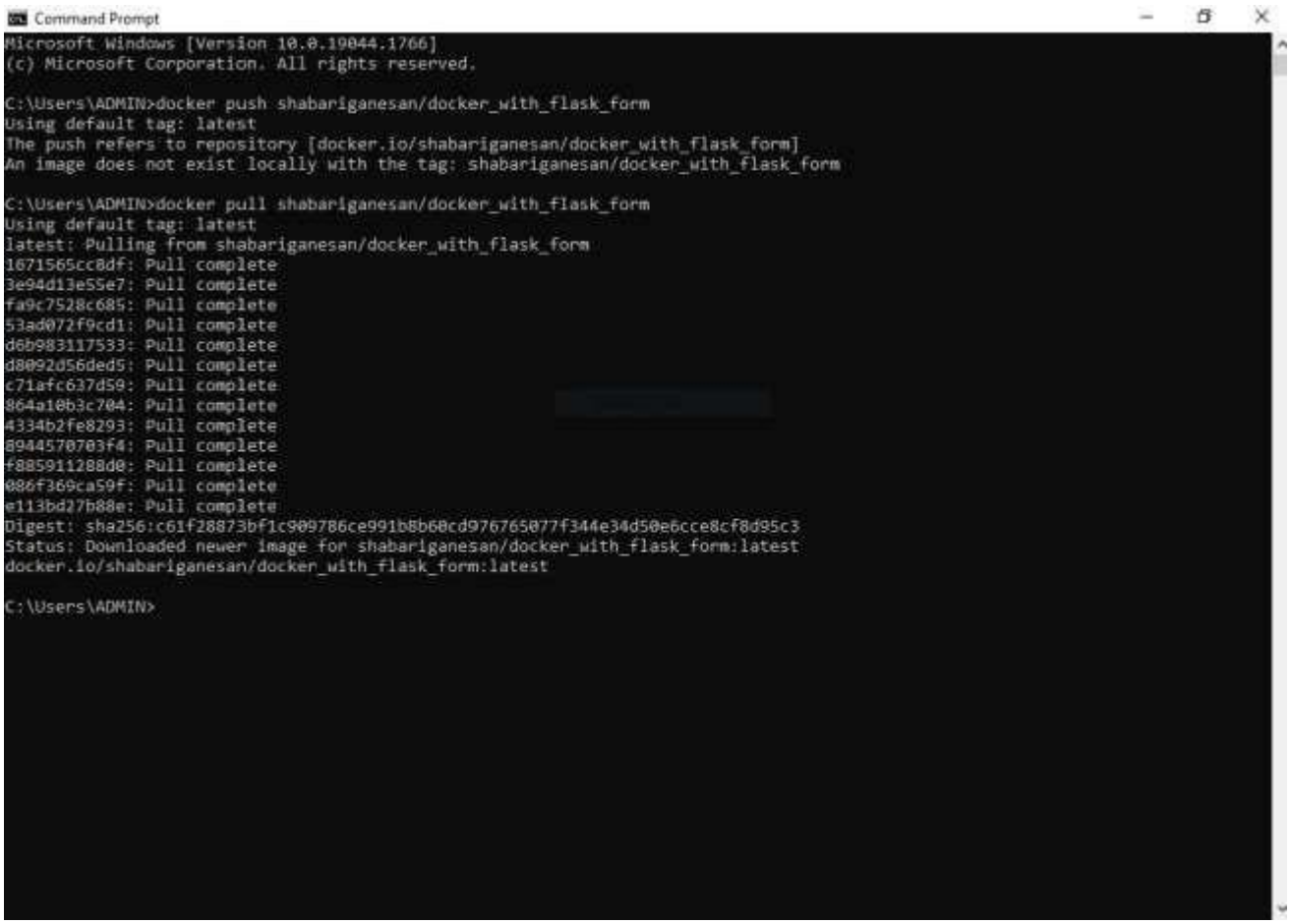
Batch No	**B9 - 3A5E**
Project Name	**NEWS TRACKER APPLICATION**
Team ID	**PNT2022TMID31792**

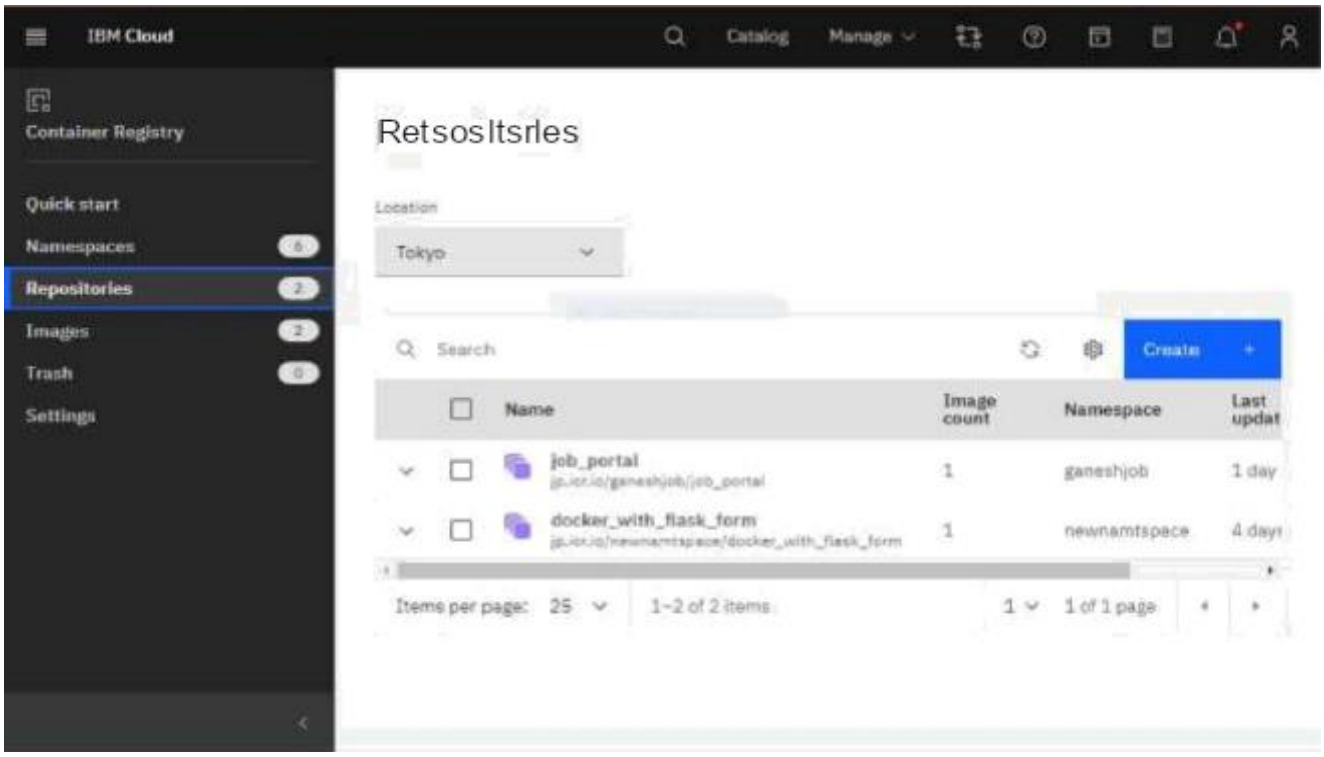
Question-1:

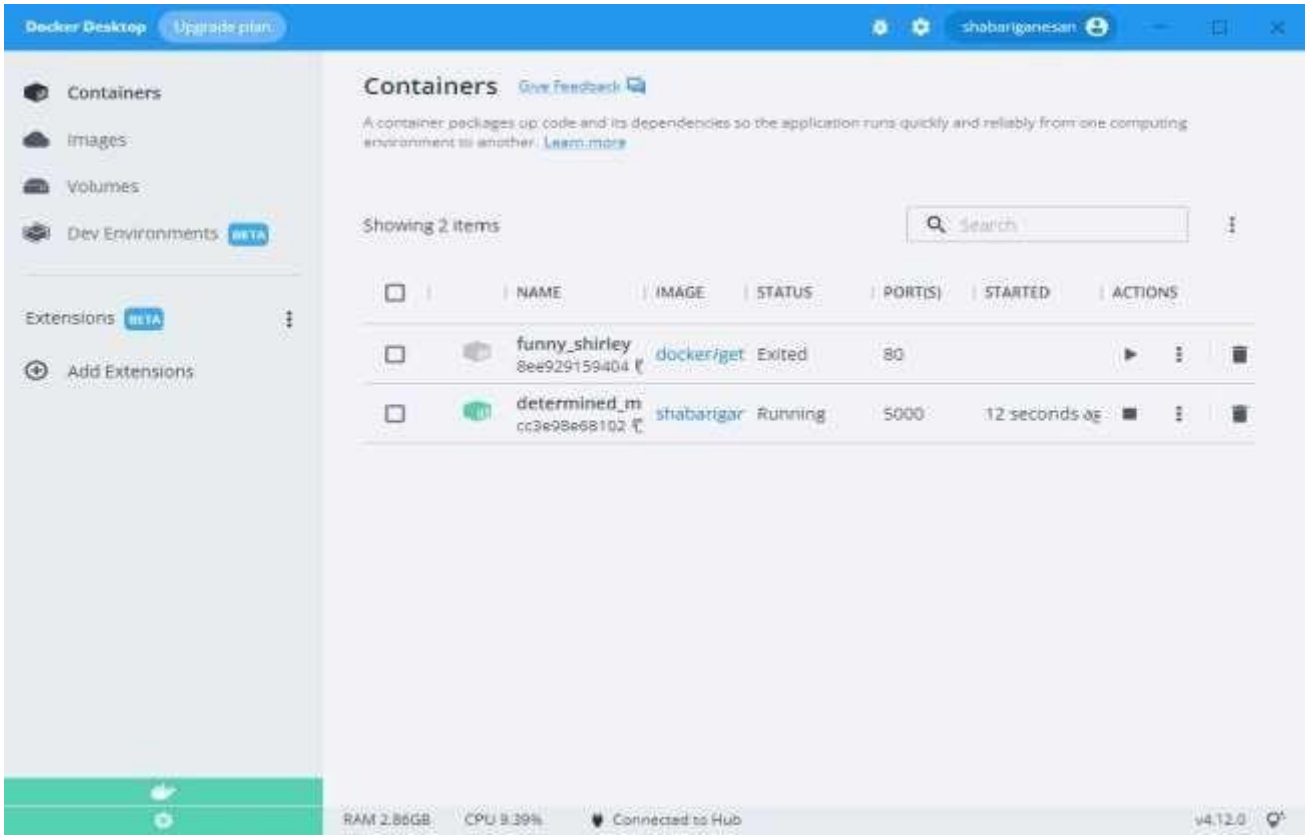
pull an image from docker hub and run it in docker

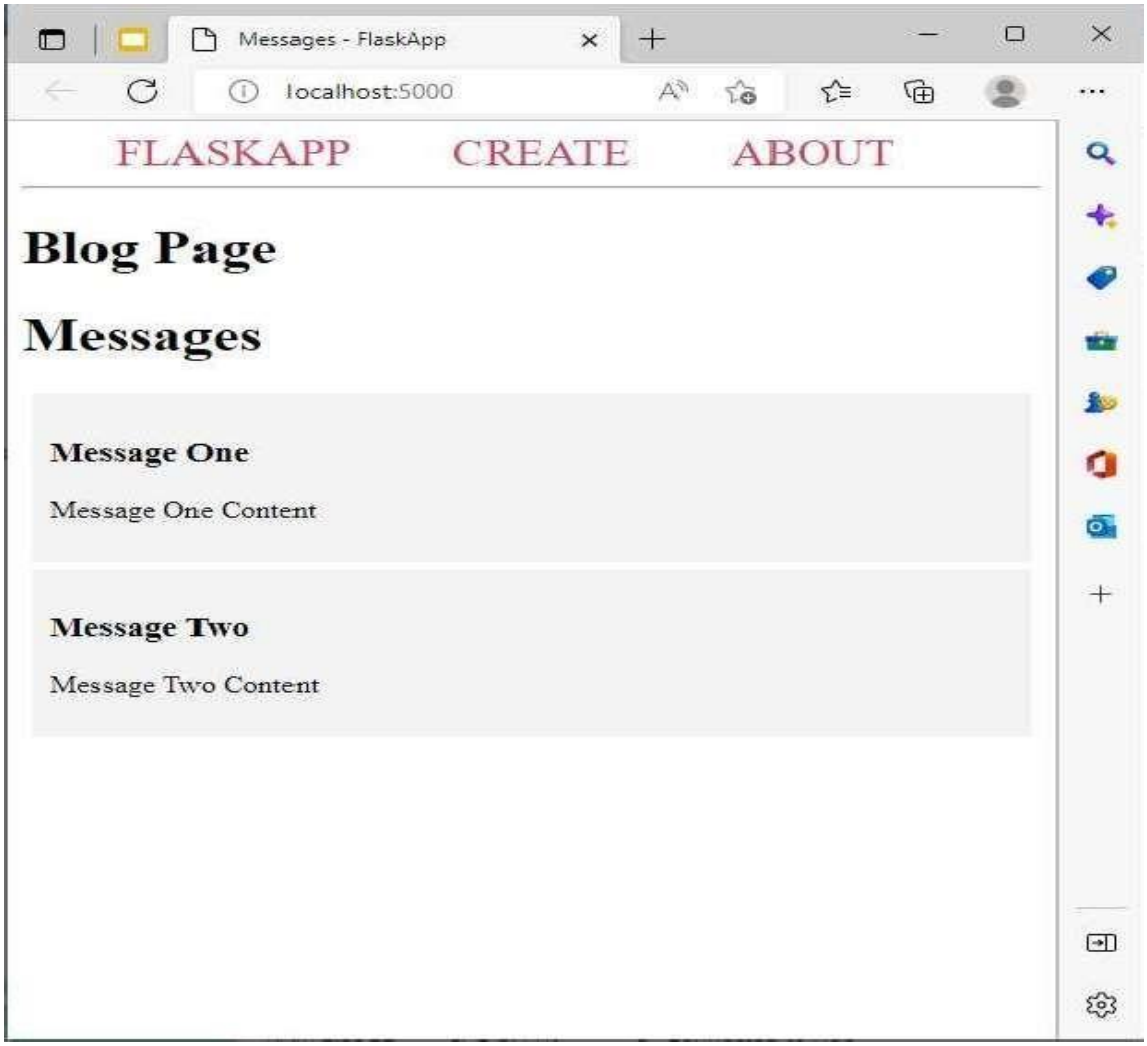
playground.pullan image form dockerhub



runtitindockerplayground


IBM Cloud
Catalog
Manage
Container Registry
Quick start
Namespaces
Repositories
Images
Trash
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

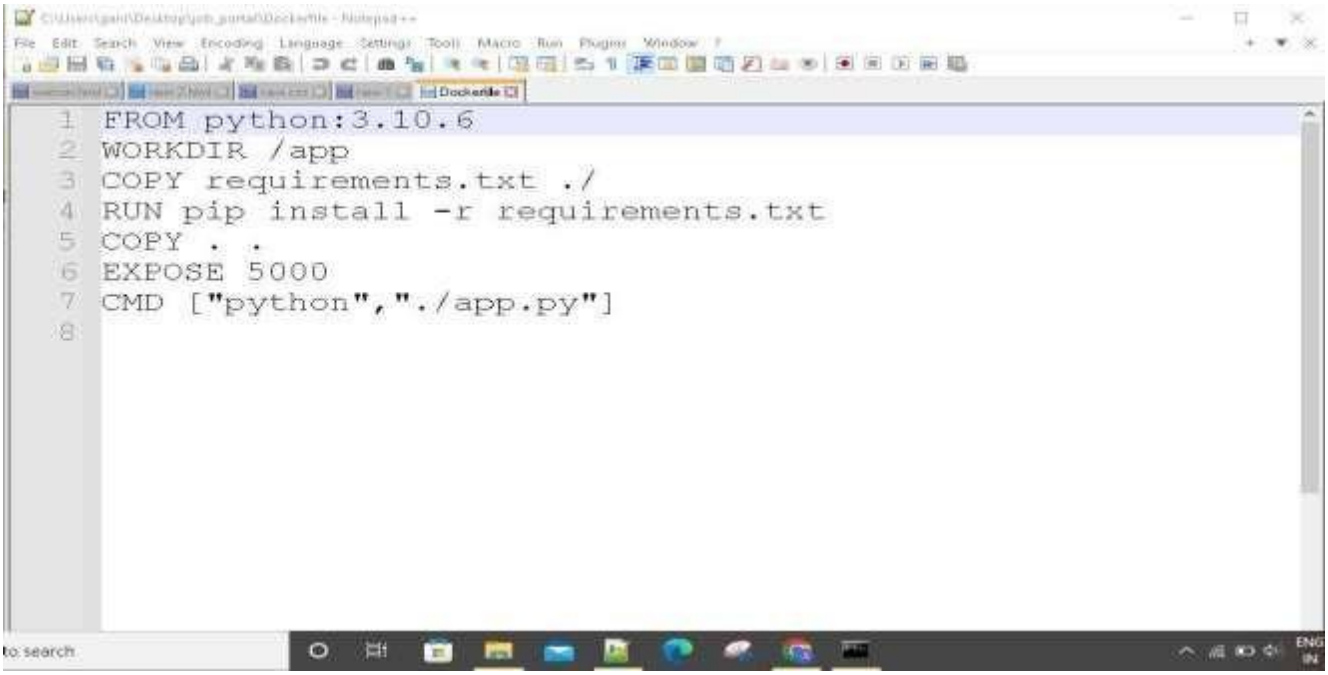

Docker Desktop
Upgrade plan
shabariganesan
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Containers
Give Feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Showing 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



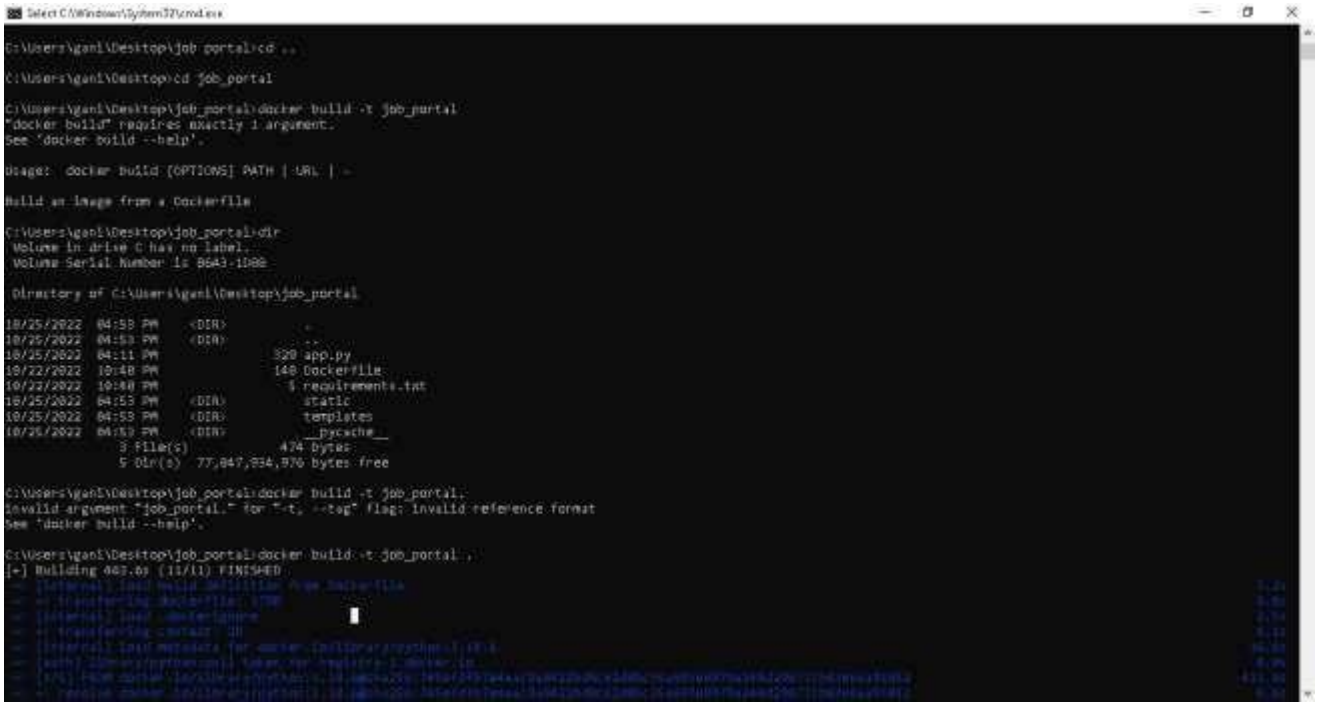
Question-2:

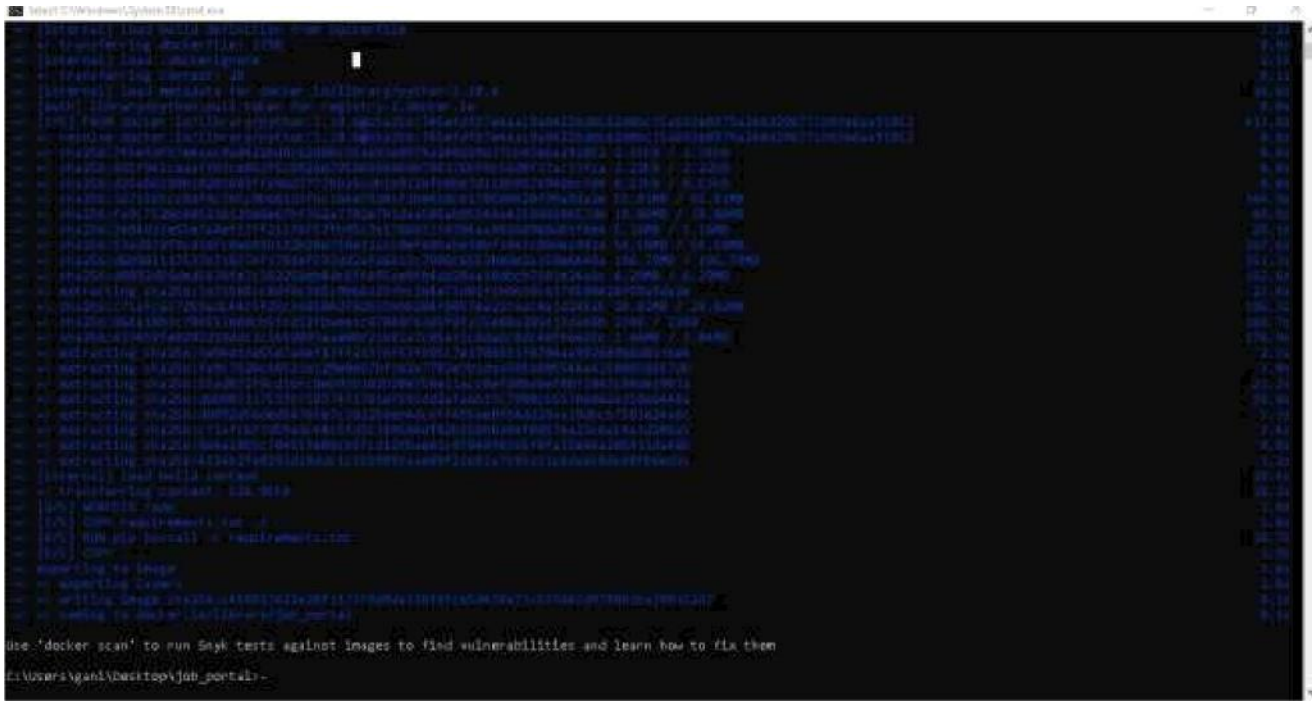
Createadockerfileforthejobportalapplicationanddeployitindockerapplication.

Creatingadockerfileforthejobportalapplication

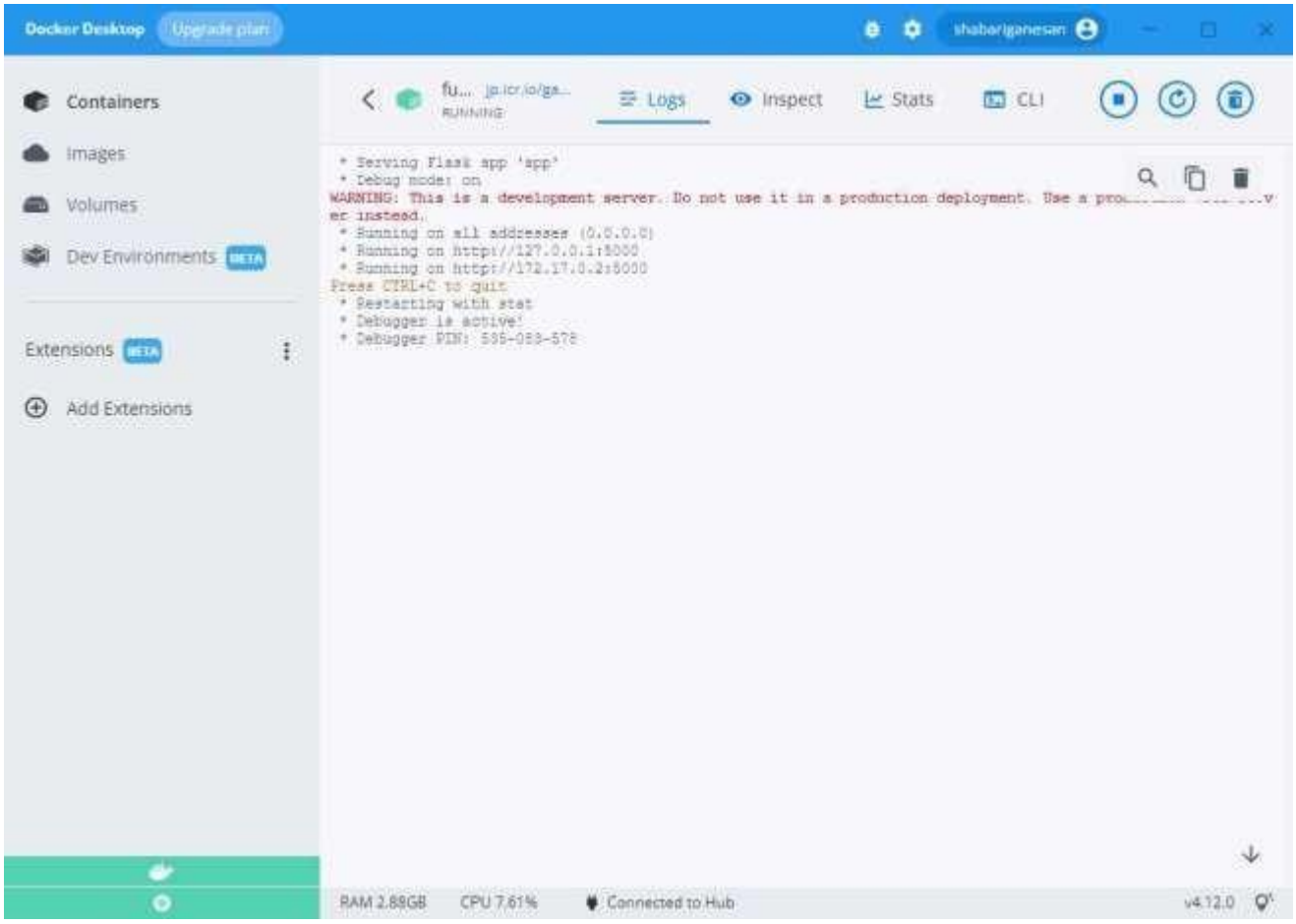


deployinindokcerapplication





Cc rat ¿zi n e r S

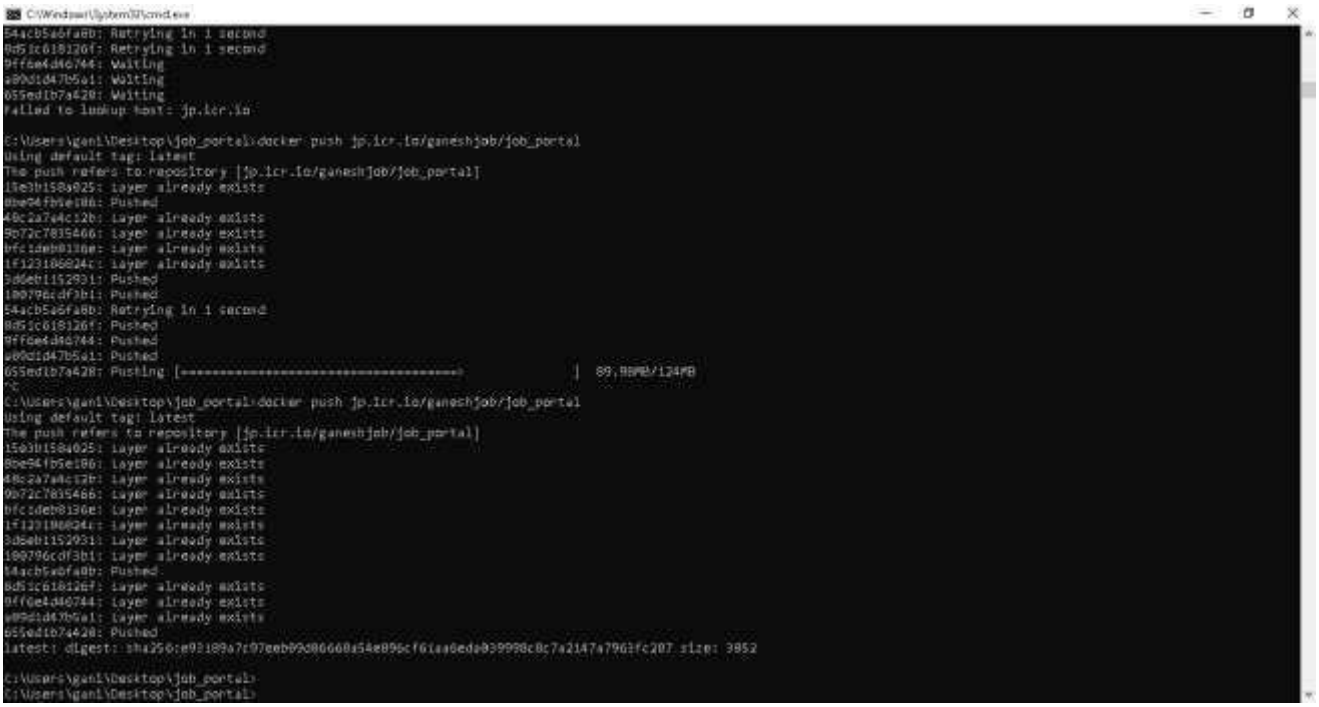


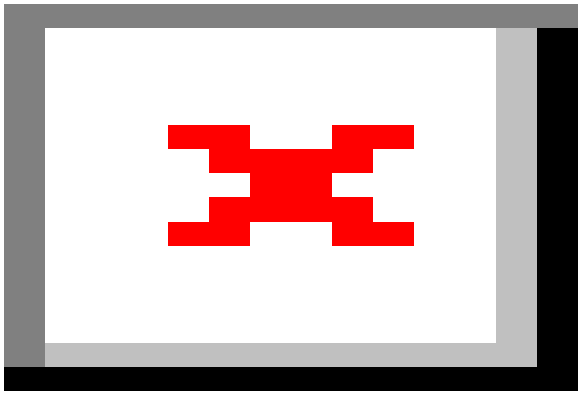
runningindockerdesktop1

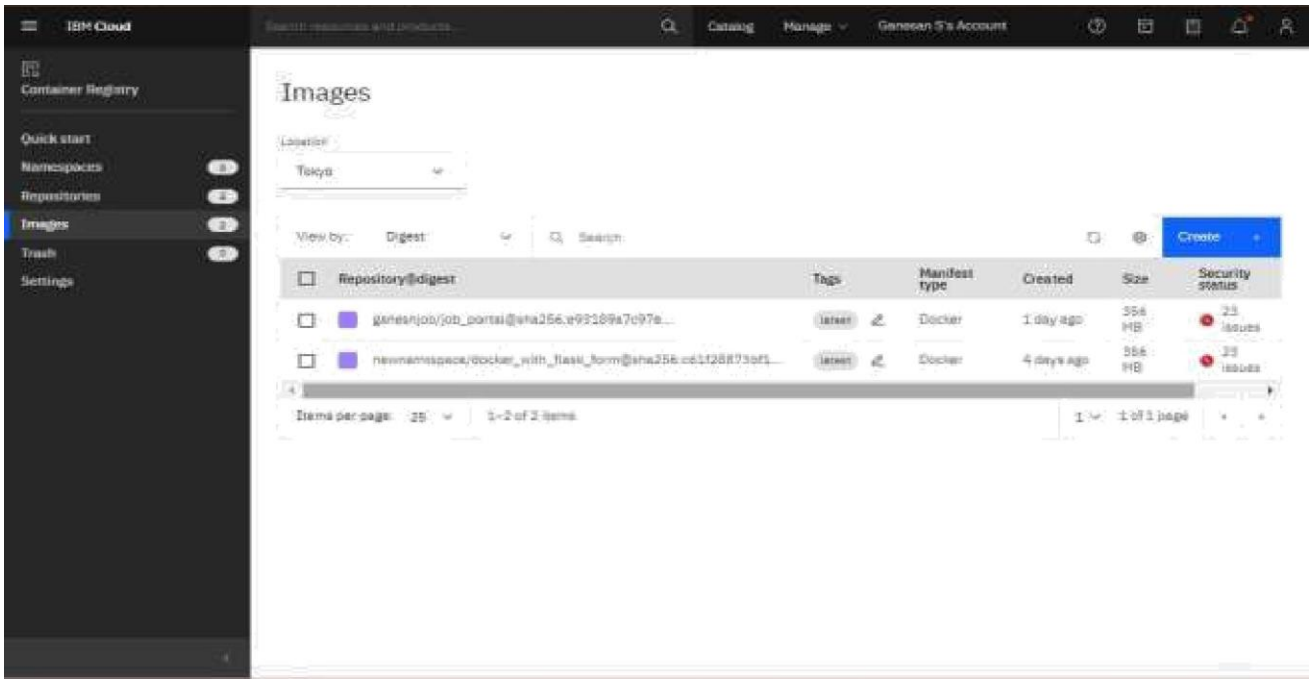
Question-3:CreateaIbm containerregistry anddeploy helloworldapp orjobportalapp

createa ibm container registry

deployhelloworldorjobportal

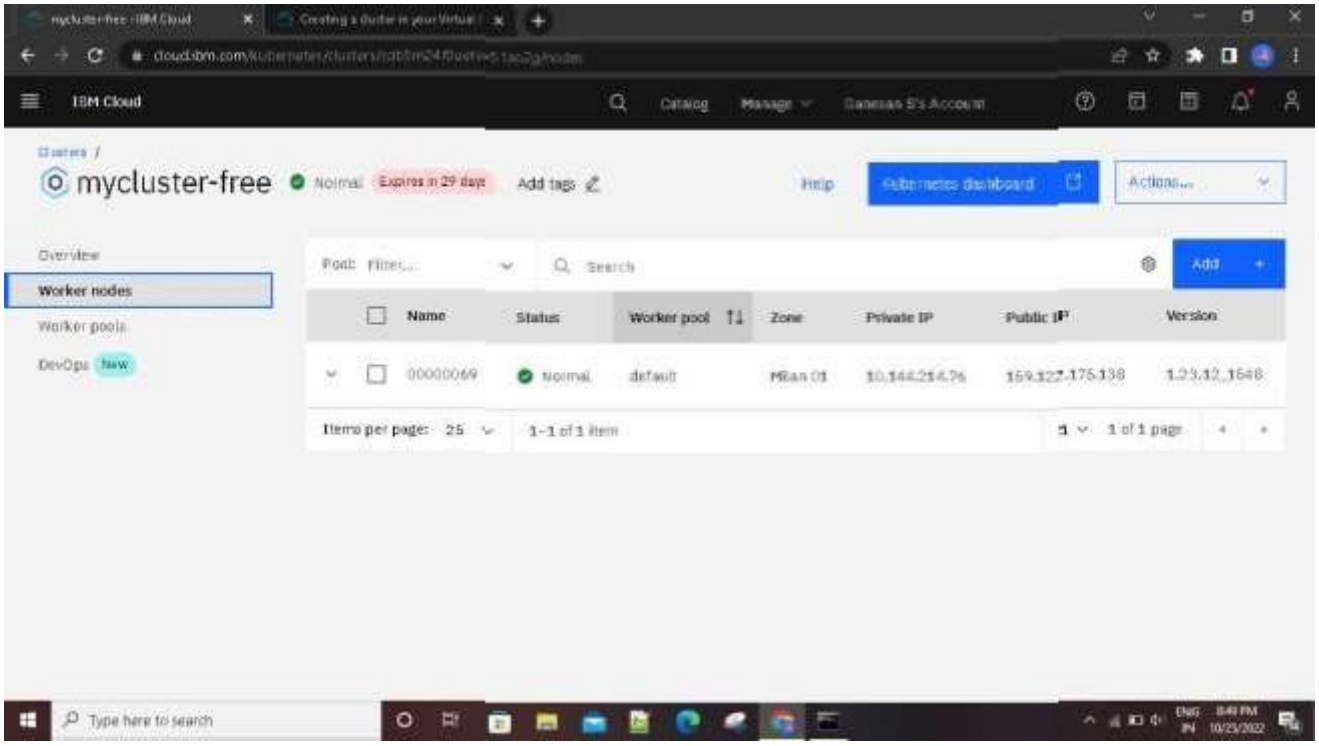




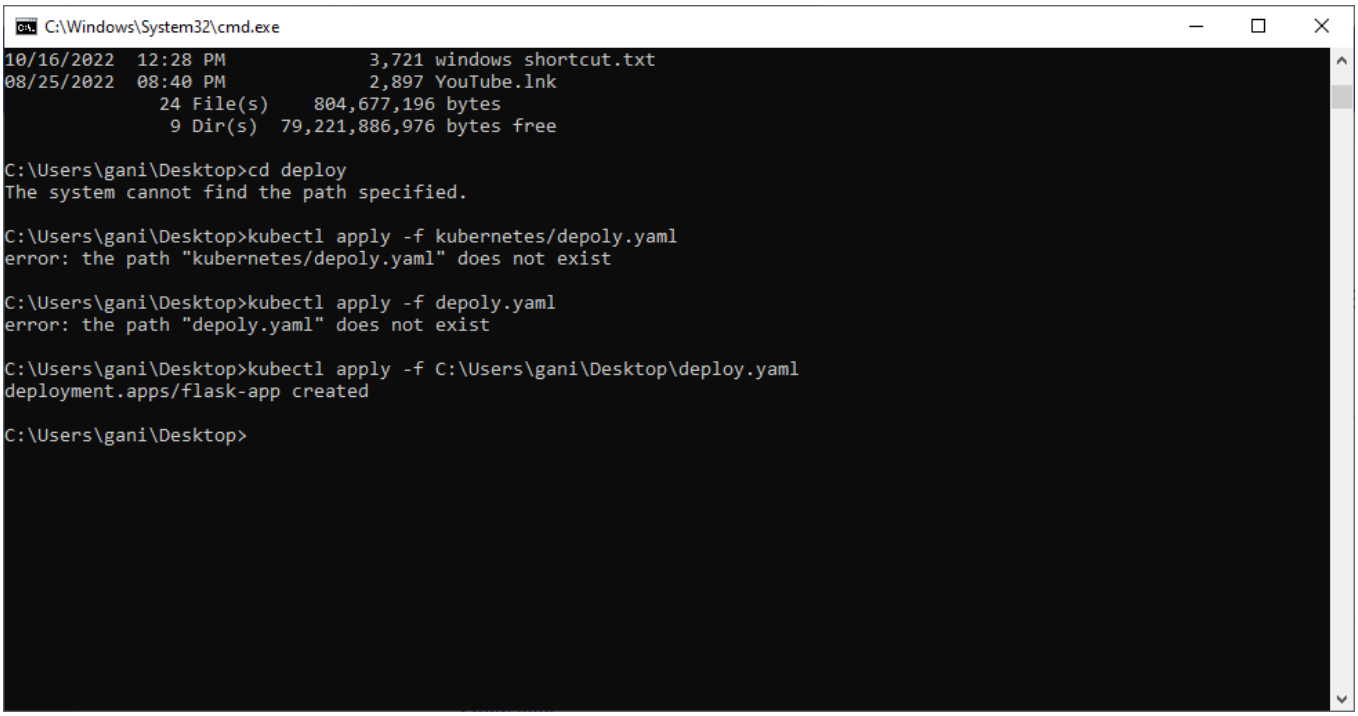


Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also exposethesameapp to run in noteport

Creatingakubernetesclusterinibmcloud



deployhelloworldimageorjobportalimageandalsoexposethesameapptoruninnoteport



Search

Workloads > Pods

Deployment

Daemon Sets

Wa1lin-gformoredalaadisplaycharl...Walingformoredata adisplaychart...

Running

Services

Services

```
ving Flask app 'app'
ug mode: on
m[1mWARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.m[0m
ning on all addresses (0.0.0.0)
ning on http://127.0.0.1:5000
ning on http://172.30.23.11:5000
Press CTRL+C to quitm[0m
tarting with stat
ugger is active!
ugger PIN: 310-487-149
```

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
```