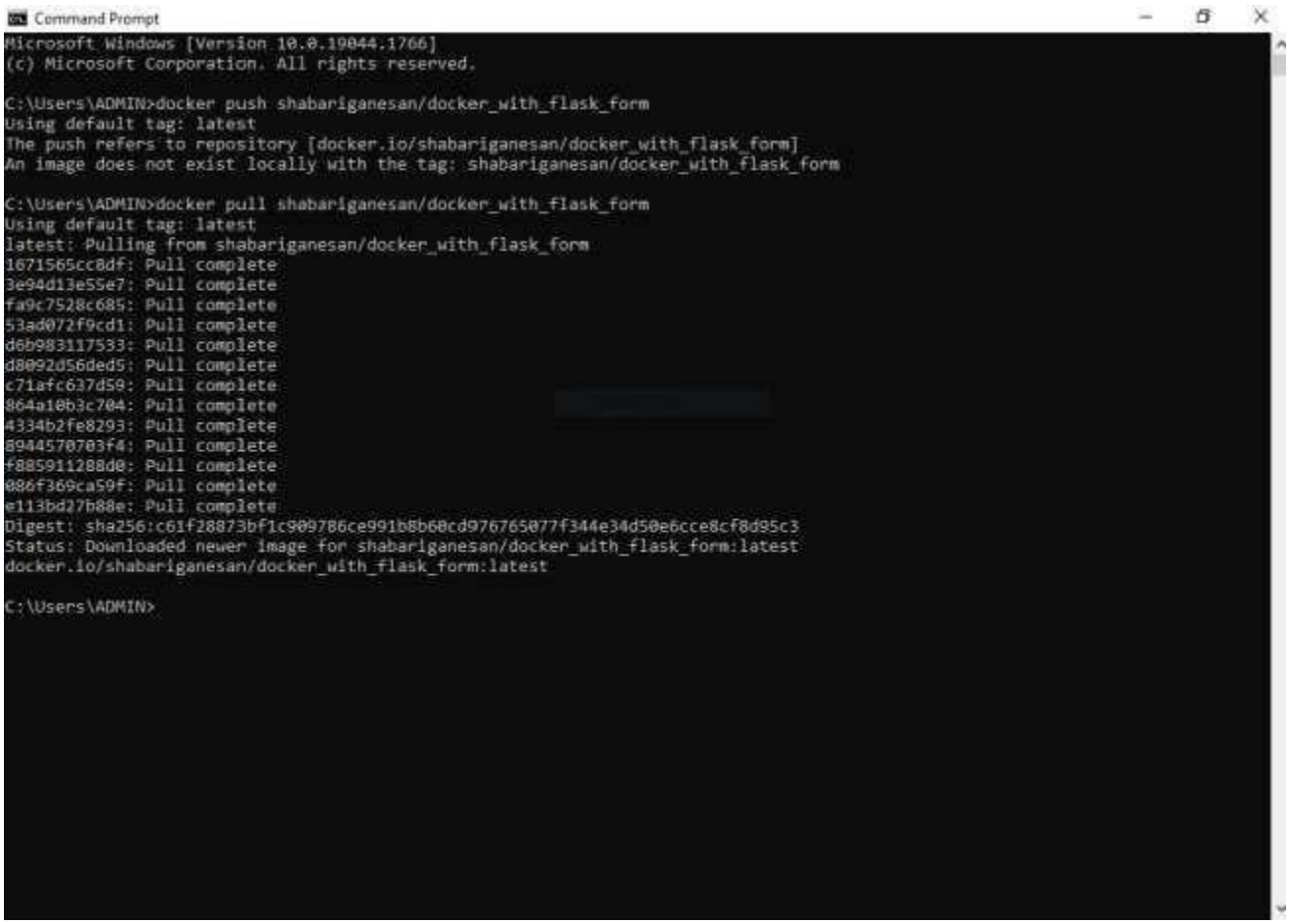
# Assignment -4

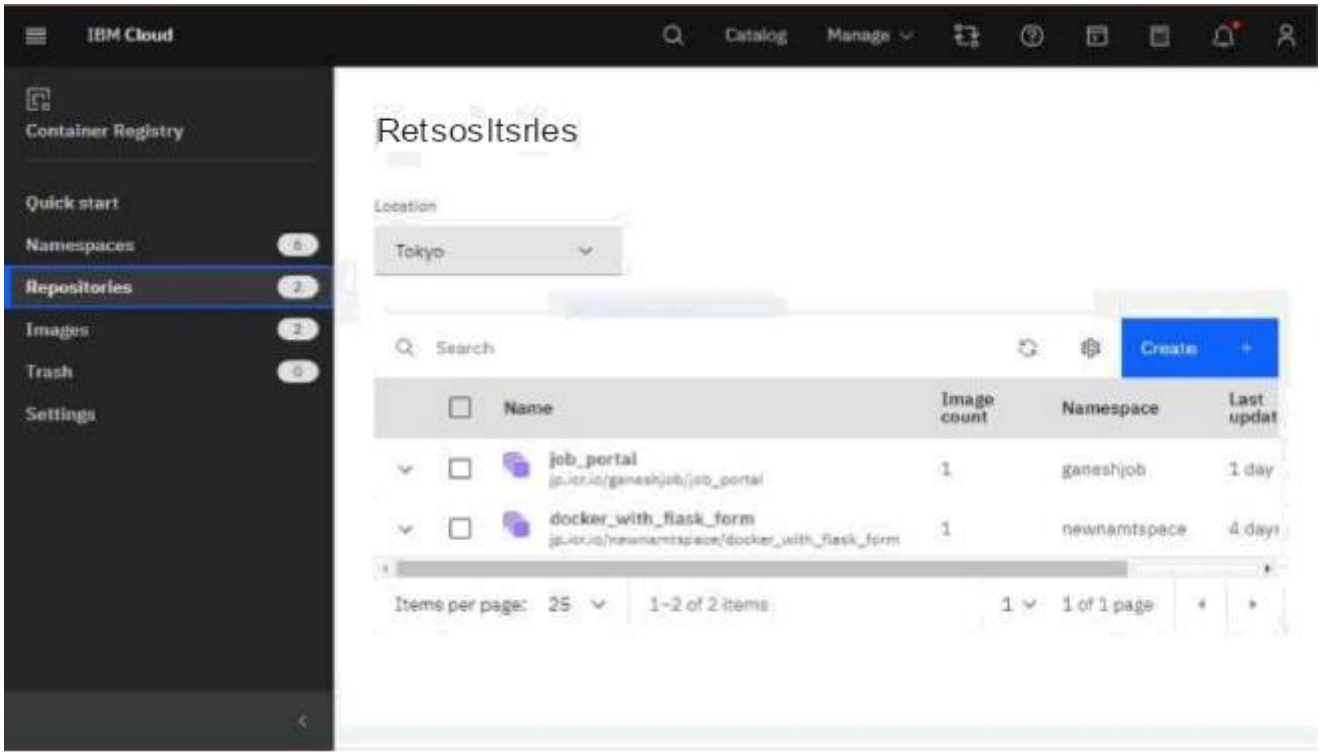
**Question-1:**

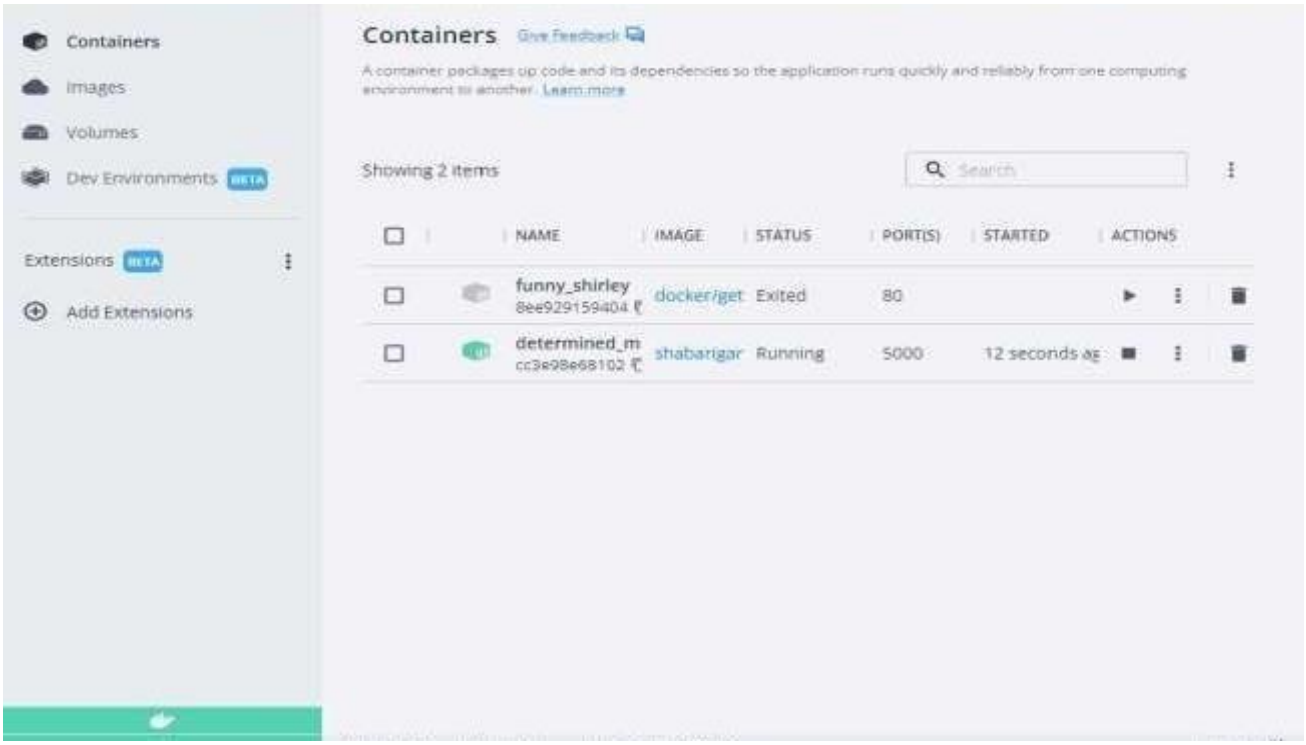
**pull an image from docker hub and run it in docker playground.**

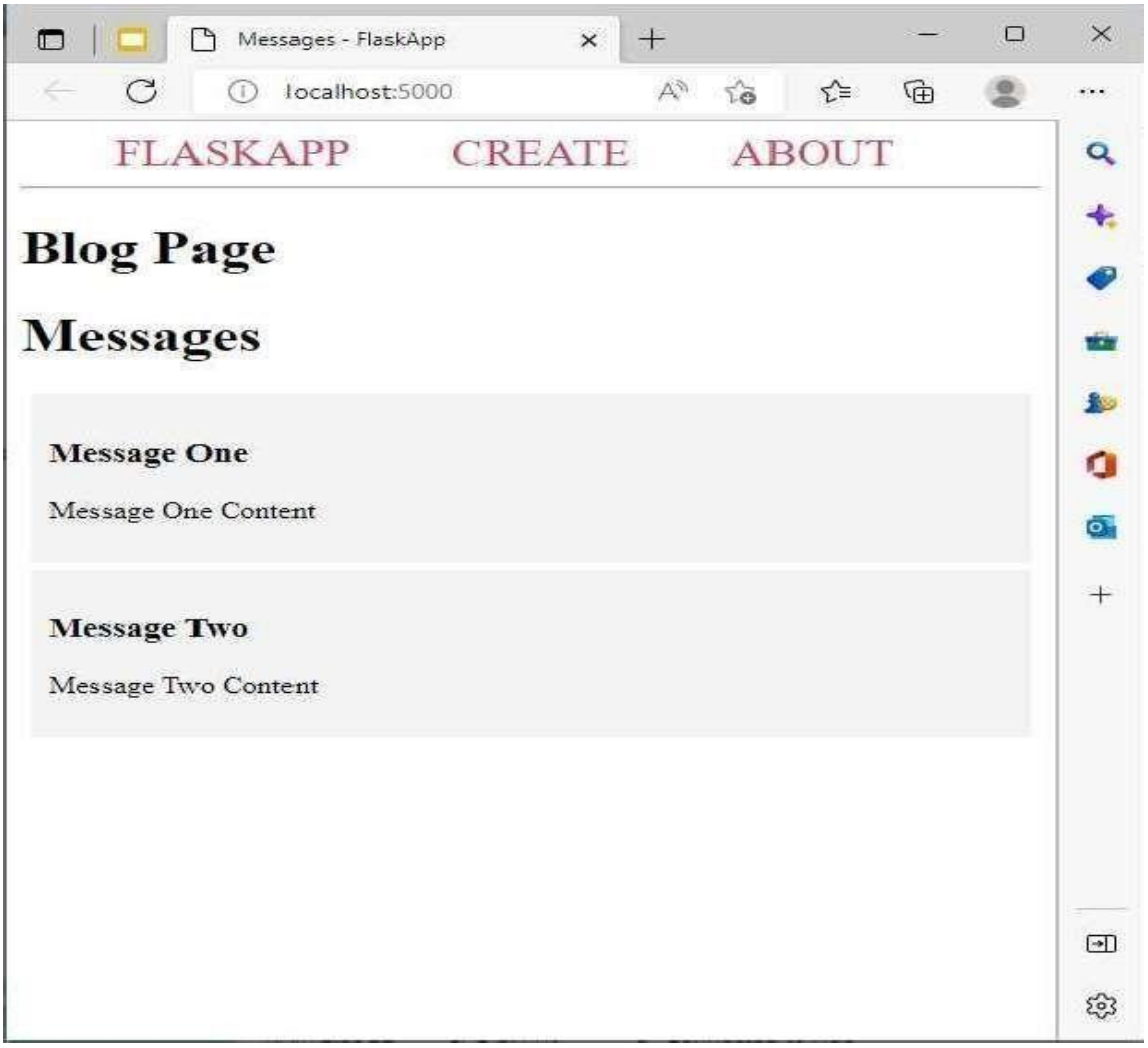
**pull an image form docker hub**




**run it in docker playground**


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

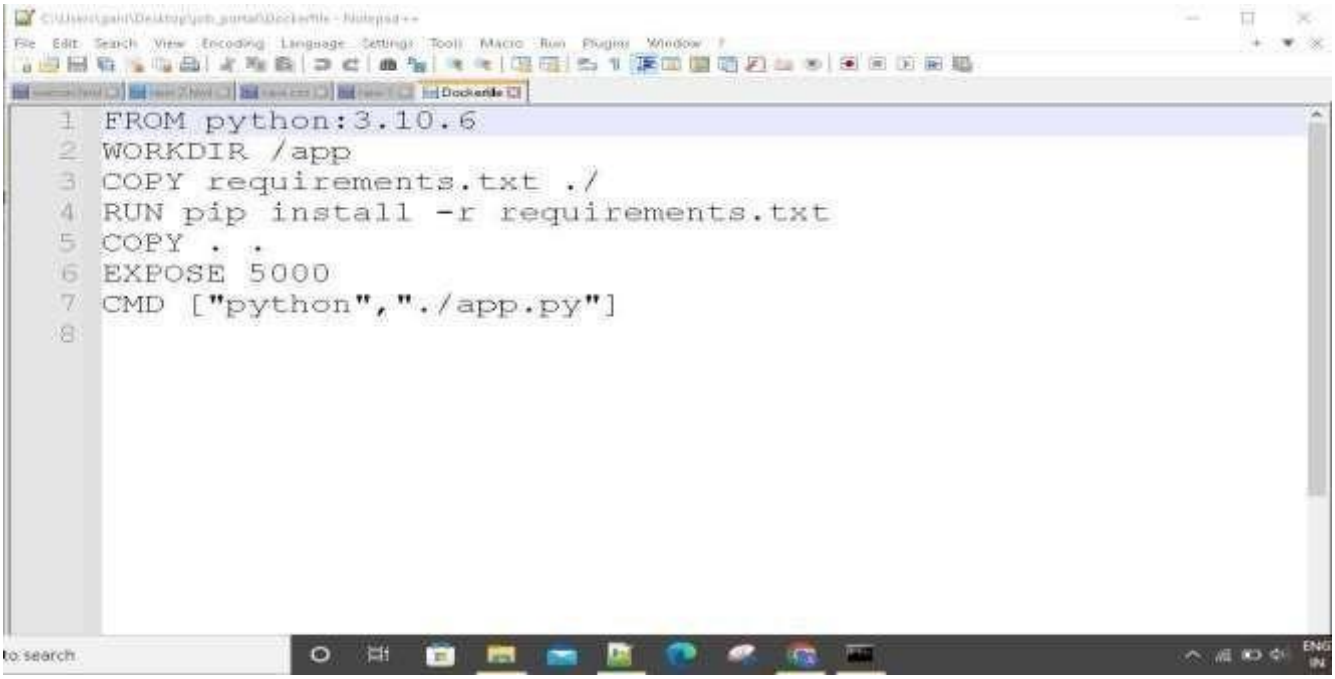

Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Containers
Give Feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Showing 2 items
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
funny_shirley
8ee929159404
docker/get
Exited
80
determined_m
cc3e98e68102
shabarigar
Running
5000
12 seconds ag



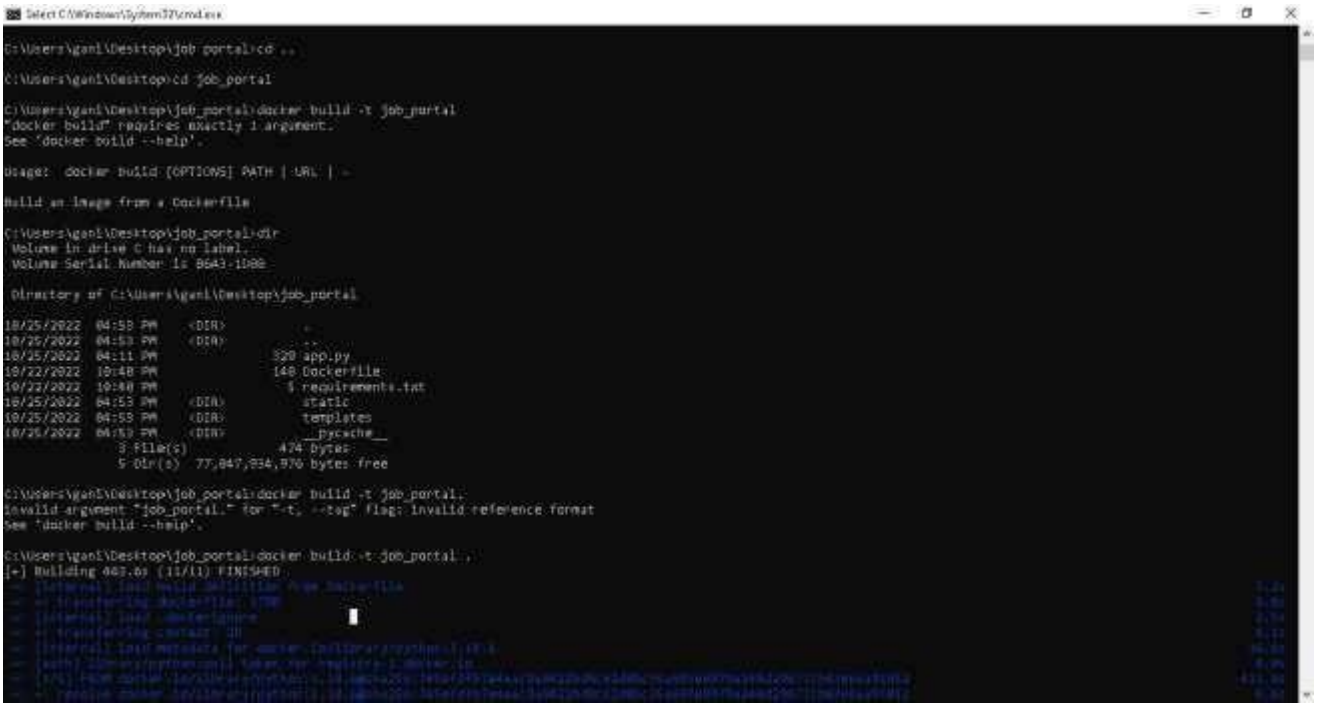

**Question-2:**

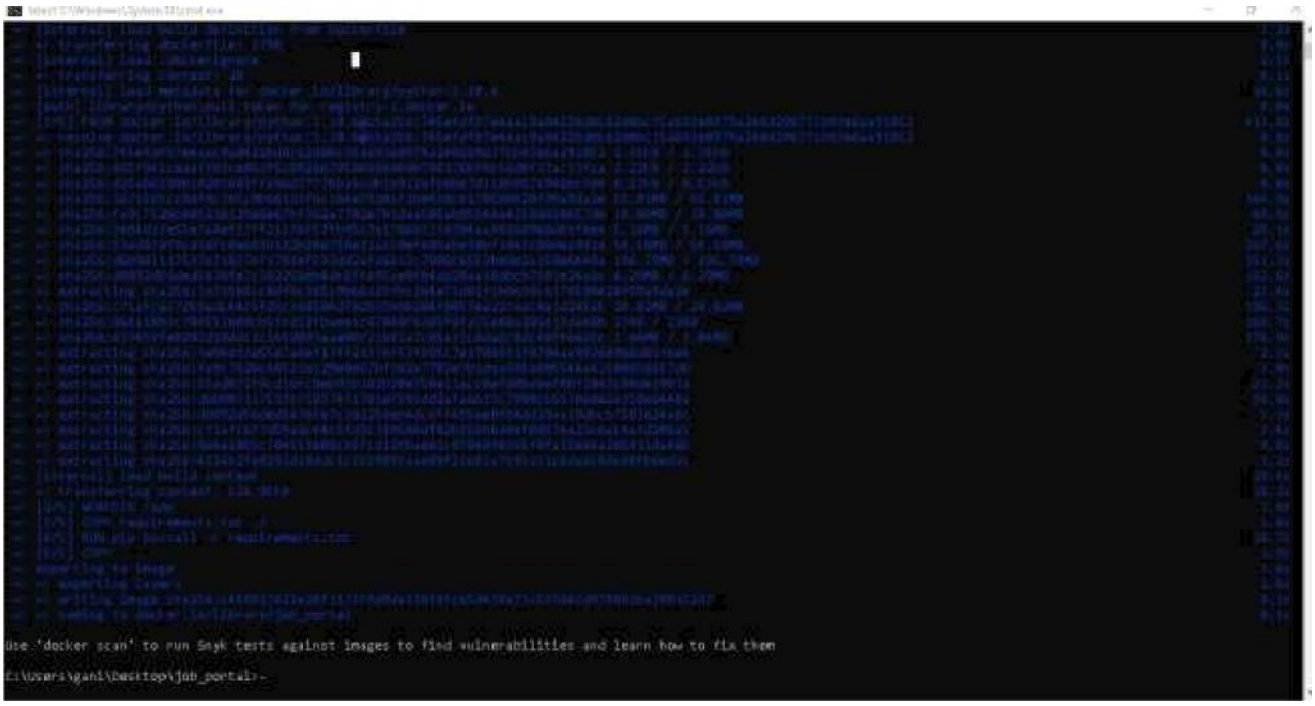
**Create a docker file for the jobportal application and deploy it in docker application.**

**Creating a docker file for the jobportal application**

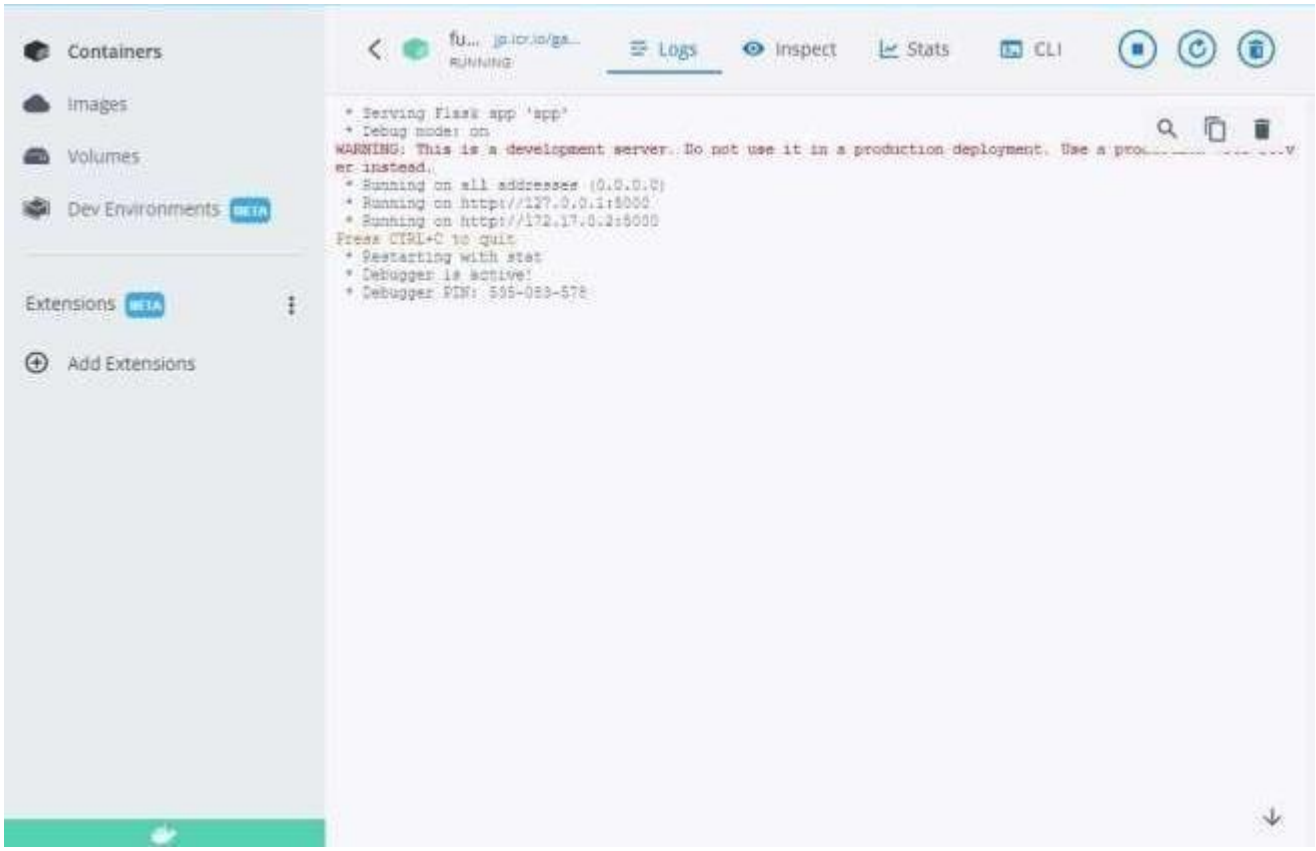



**deploy in in dokcer application**





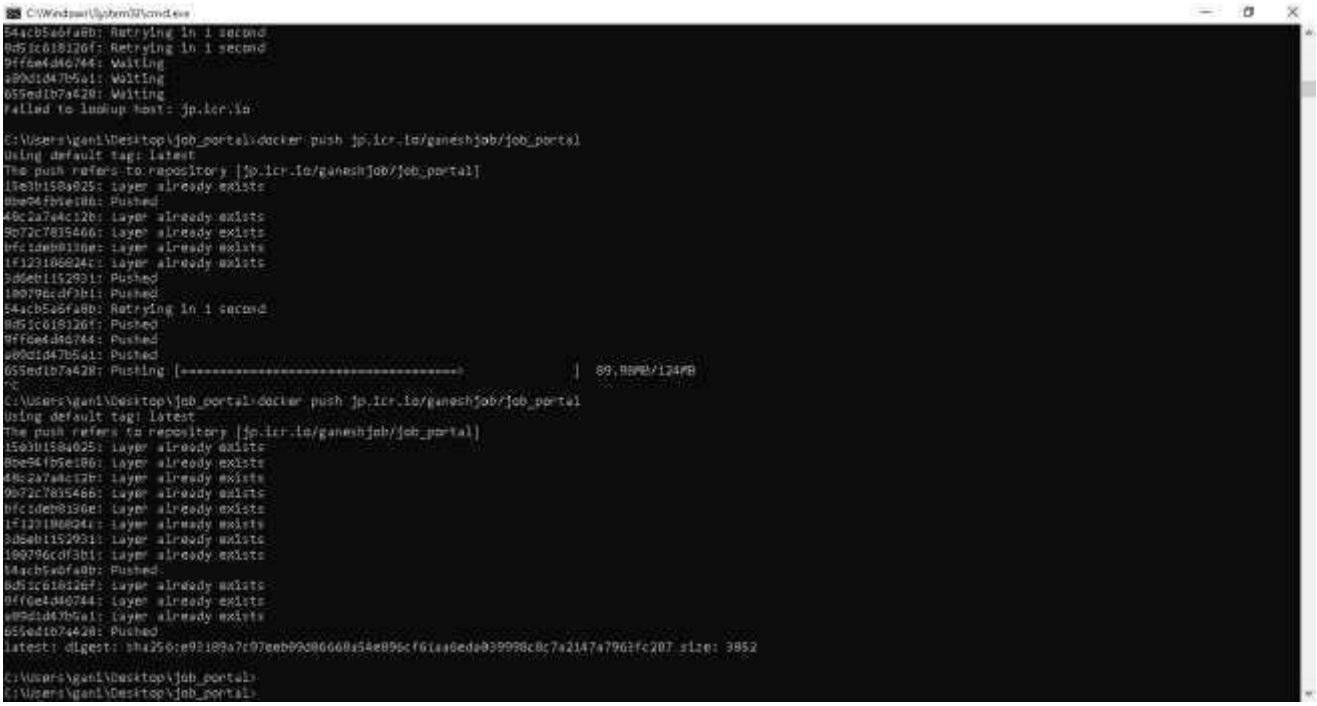

C c rat ¿z i n e r S

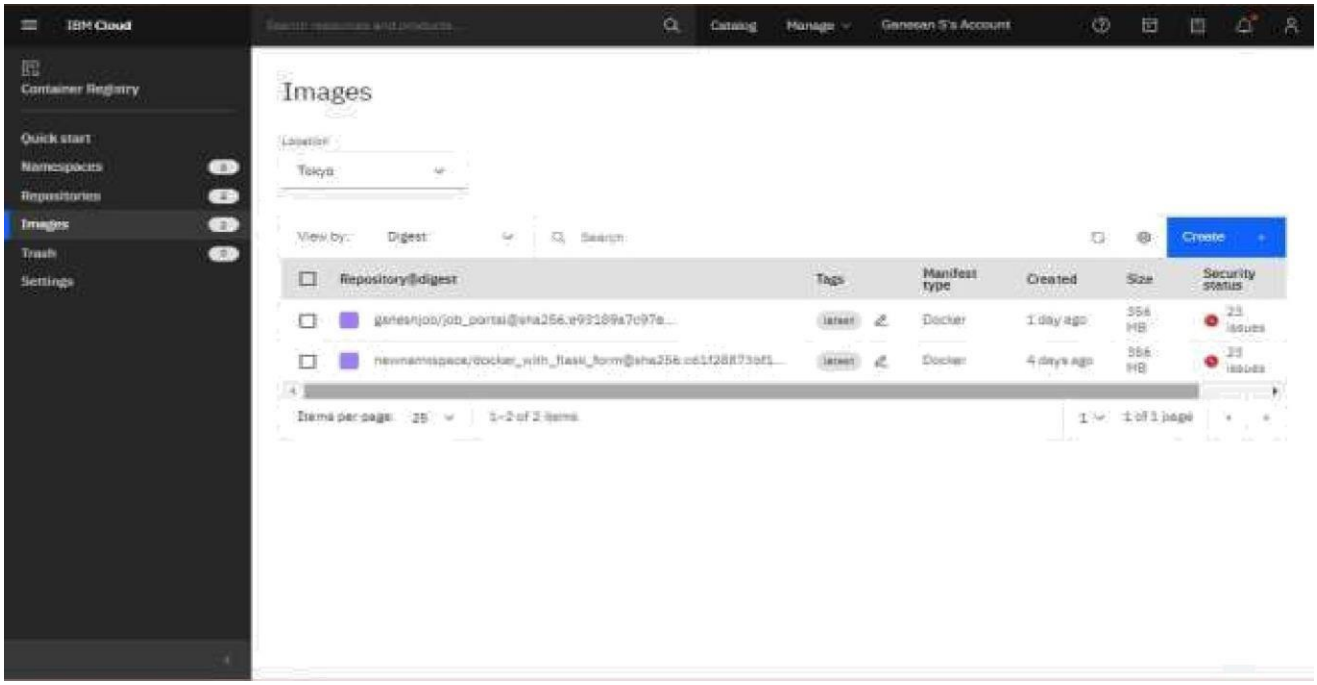


running in docker desktop 1

**Question-3:Create aIbm container registry and deploy helloworld app or jobportalapp create a ibm container registry**

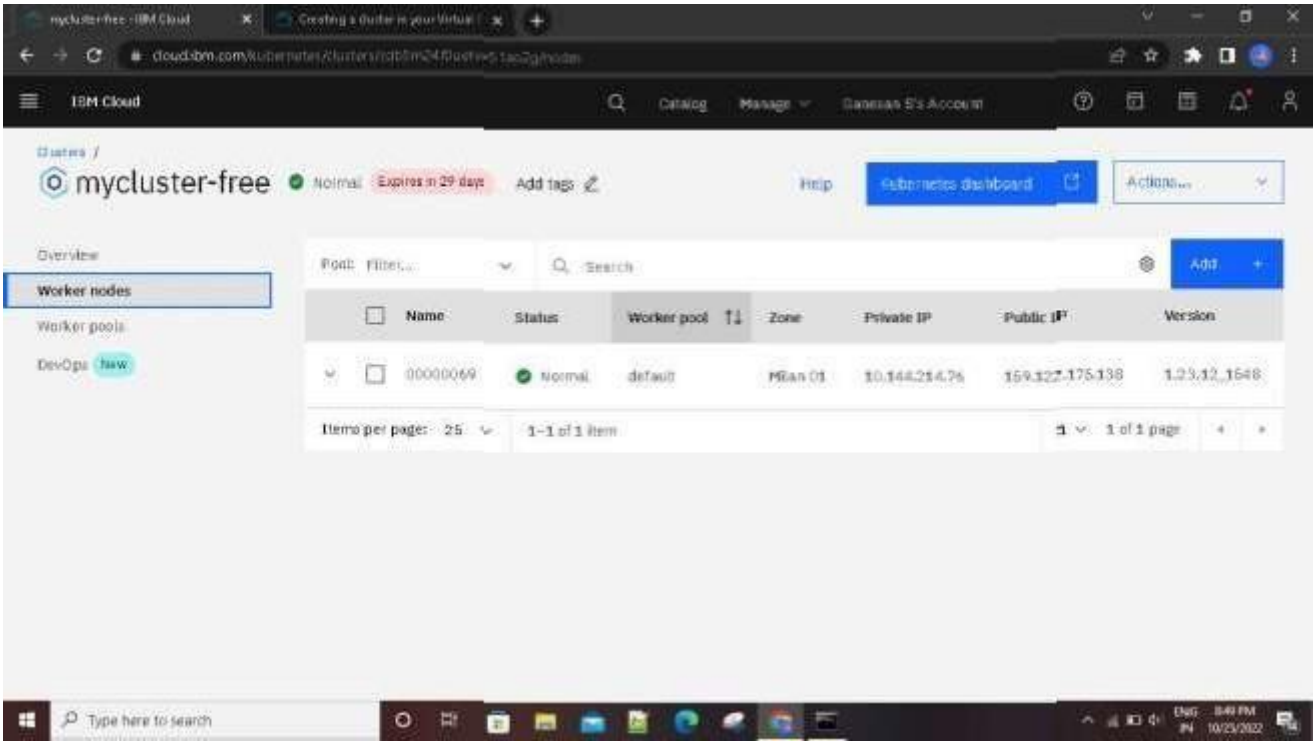
**deployhelloworld or jobportal**



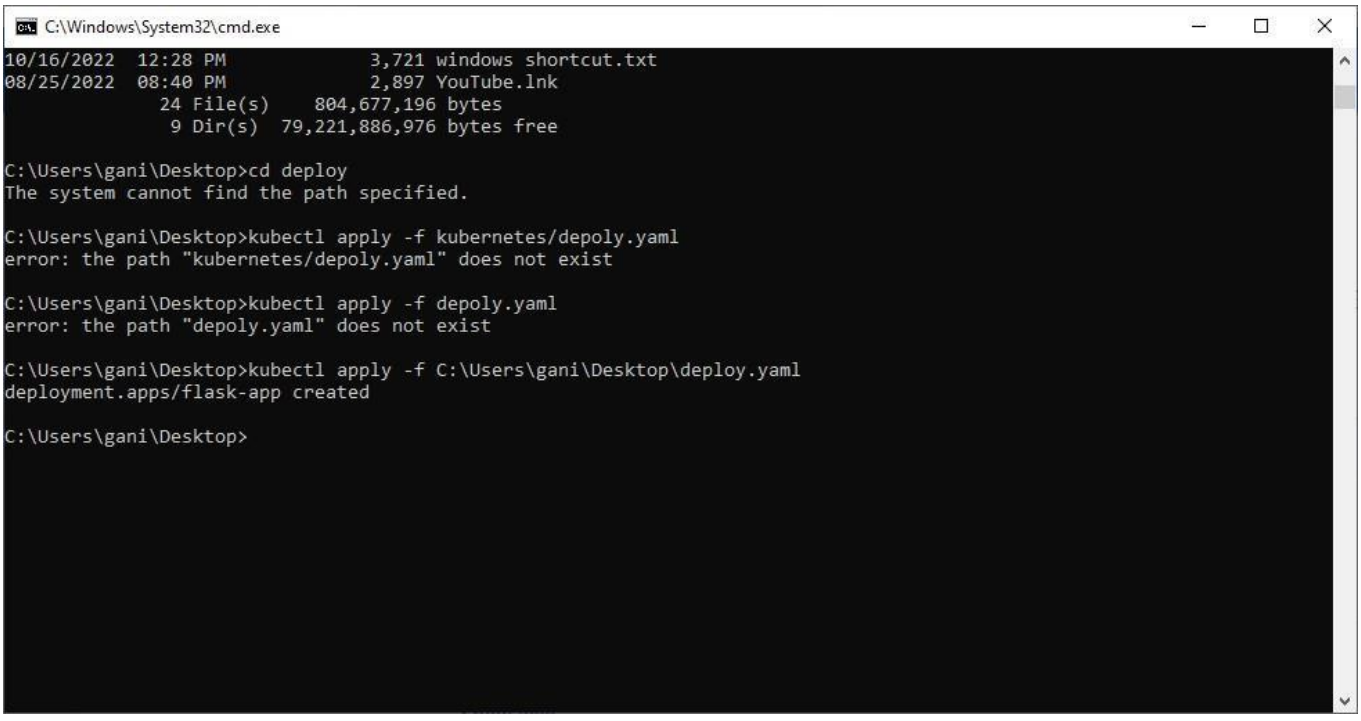

IBM Cloud
Catalog
Manage
Ganesan S's Account
Container Registry
Quick start
Namespaces
Repositories
Images
Trash
Settings
Images
Location
Tokyo
View by:
Digest
Search
Create
Repository@digest
Tags
Manifest type
Created
Size
Security status
Docker
1 day ago
Docker
4 days ago
Items per page:
25
1–2 of 2 items
1 of 1 page

**Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport**

**Creating a kubernetes cluster in ibm cloud**

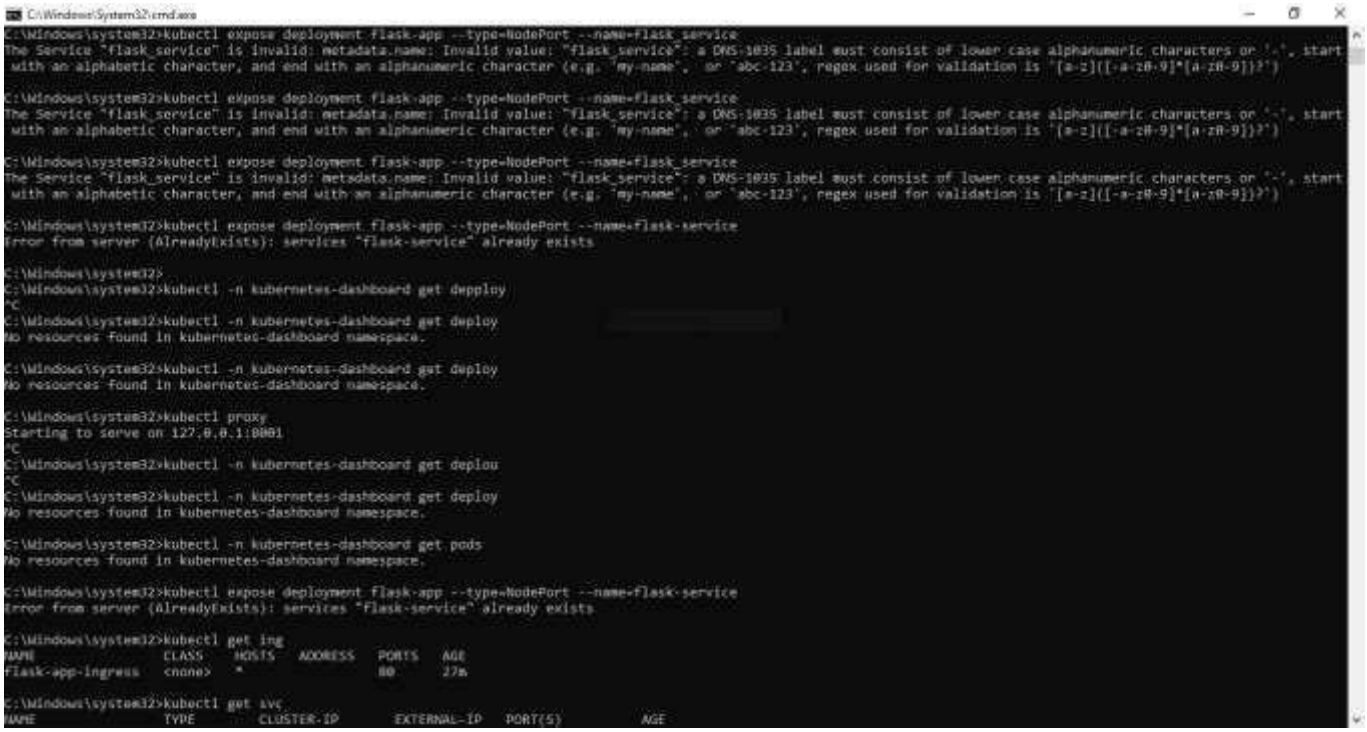



**deploy helloworld image or jobportal image and also expose the same app to run in noteport**



Search
Workloads > Pods
Deployment
Daemon Sets
Wa1lin-g for more da la a display c har l... Wa li ng for more data a di splay chart...
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.
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 quit
tarting with stat
ugger is active!
ugger PIN: 116-487-149
Services

Workloads > Pods > flask-app-7f447b5c8c-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])?')
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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