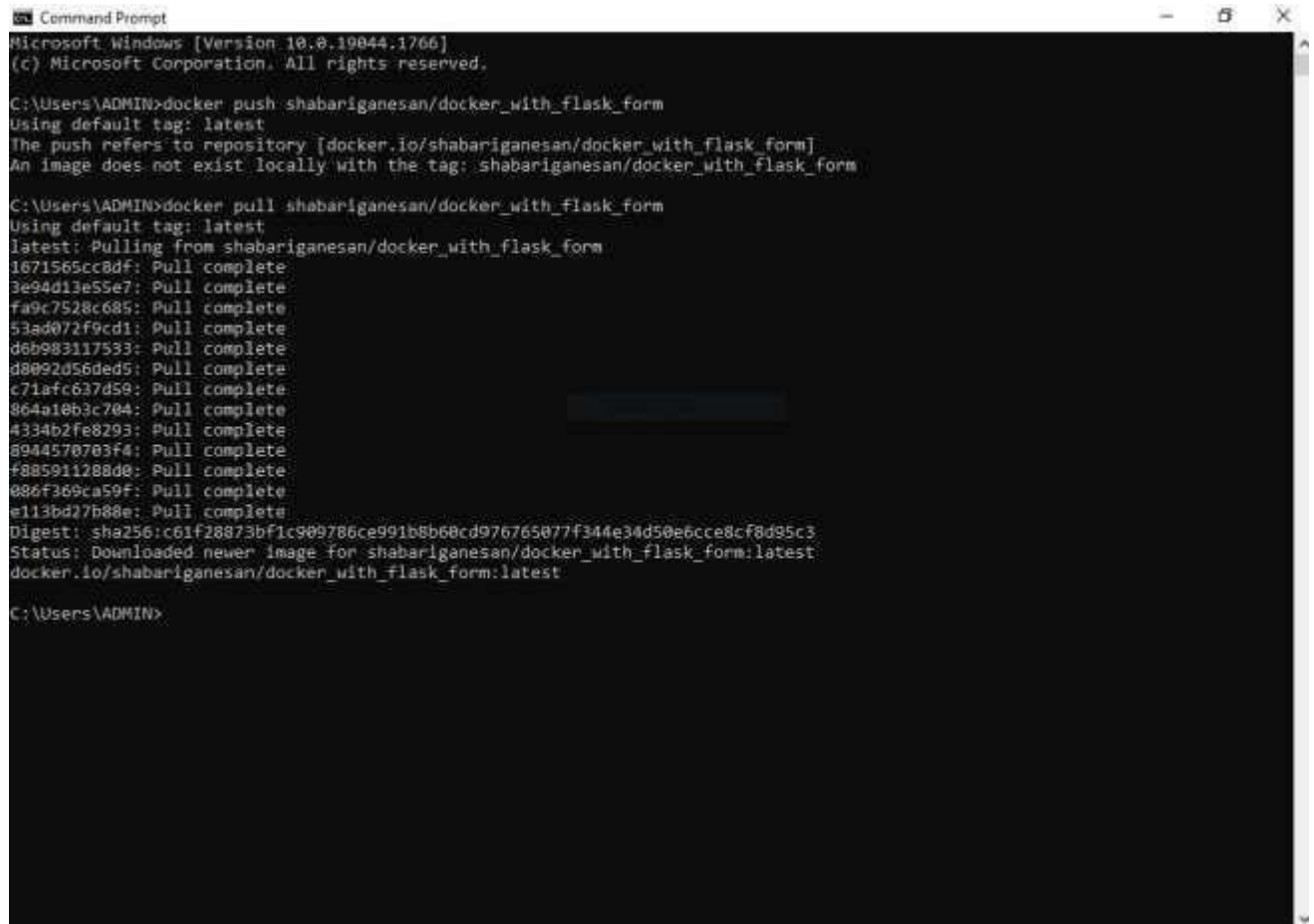


Assignment -4

Question-1:

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

pull an image form docker hub

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt". The text inside shows a user at the C:\Users\ADMIN prompt running 'docker push shabariganesan/docker_with_flask_form'. It reports that the image does not exist locally. Then, the user runs 'docker pull shabariganesan/docker_with_flask_form'. The output shows the image being pulled from Docker Hub, listing 16 layers as 'Pull complete'. The digest is sha256:c61f28873bf1c909786ce991b8b68cd976765077f344e34d50e6cce8cf8d95c3. The status is 'Downloaded newer image for shabariganesan/docker_with_flask_form:latest'. The prompt returns to C:\Users\ADMIN>.

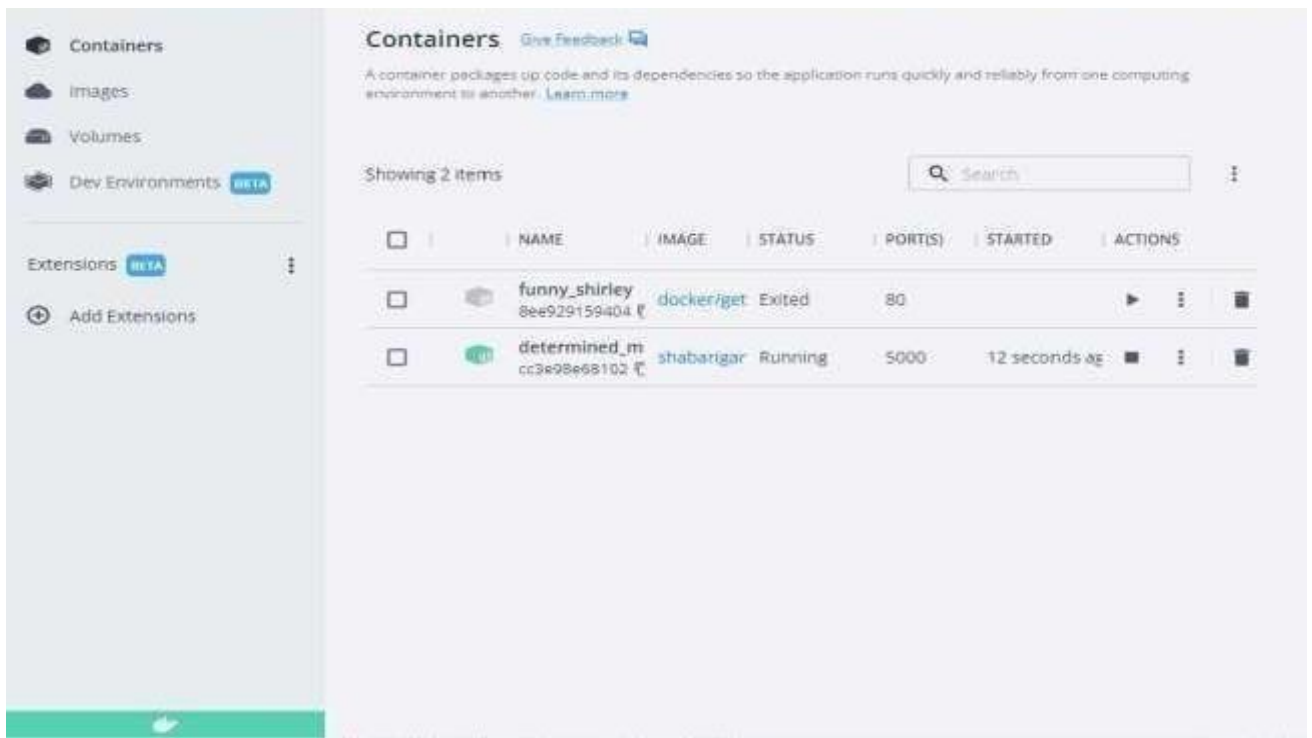
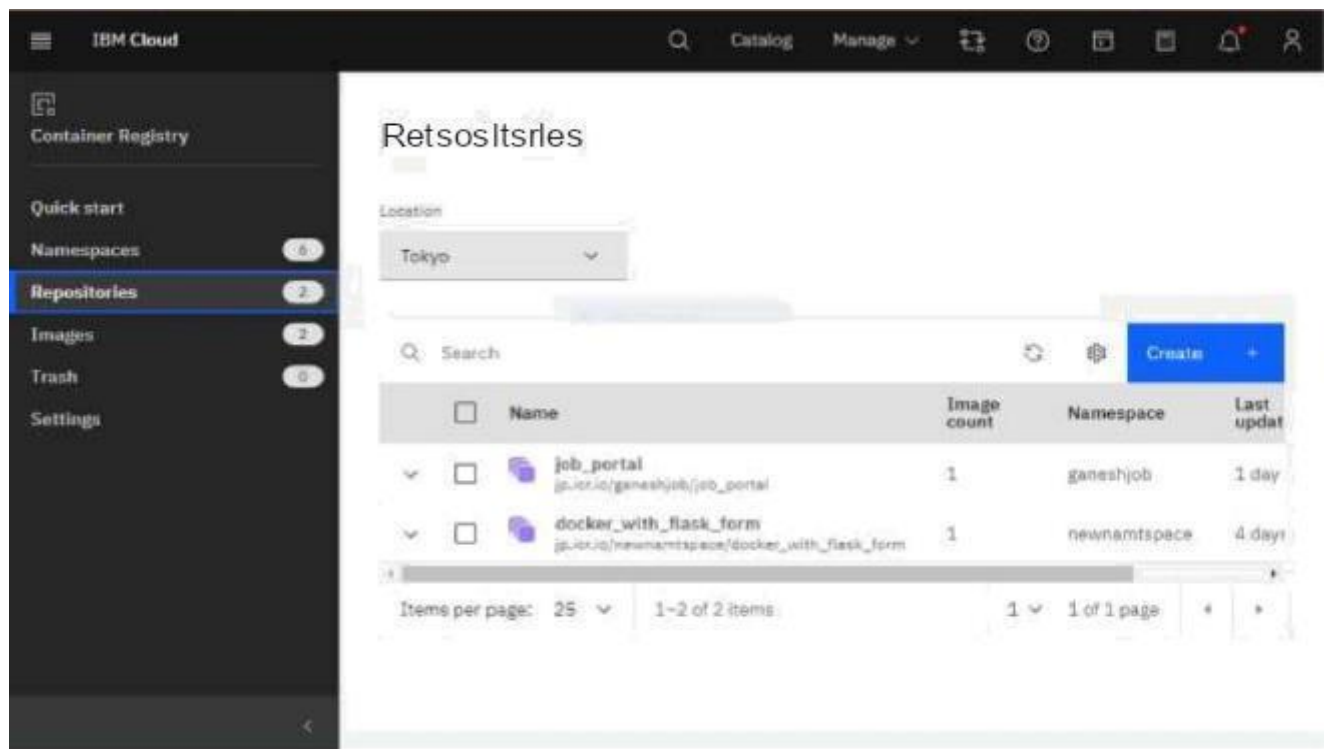
```
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

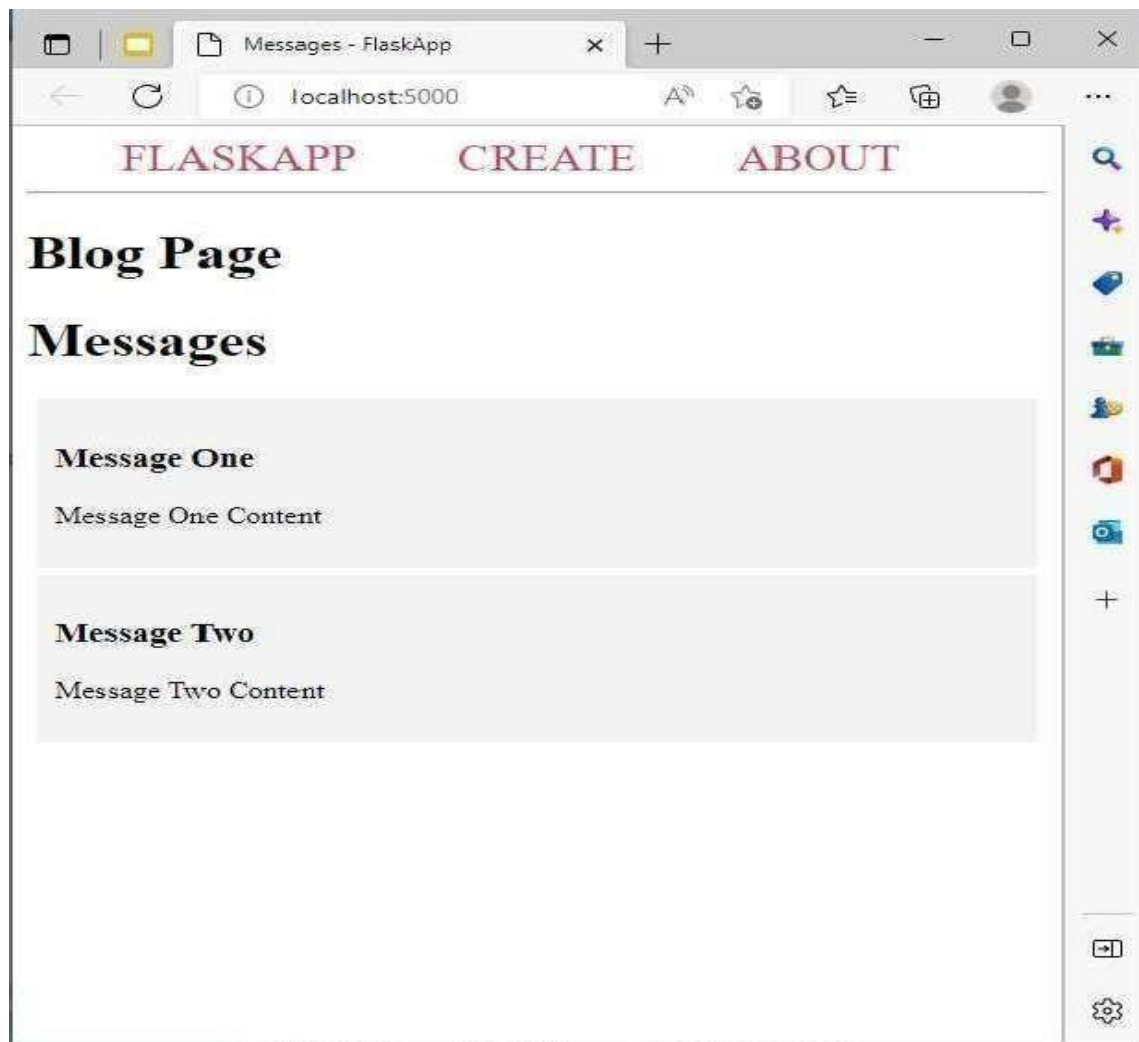
C:\Users\ADMIN>docker push shabariganesan/docker_with_flask_form
Using default tag: latest
The push refers to repository [docker.io/shabariganesan/docker_with_flask_form]
An image does not exist locally with the tag: shabariganesan/docker_with_flask_form

C:\Users\ADMIN>docker pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
1671565cc8df: Pull complete
3e94d13e55e7: Pull complete
fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: Pull complete
c71afc637d59: Pull complete
864a10b3c704: Pull complete
4334b2fe8293: Pull complete
8944570703f4: Pull complete
f885911288d0: Pull complete
086f369ca59f: Pull complete
e113bd17b88e: Pull complete
Digest: sha256:c61f28873bf1c909786ce991b8b68cd976765077f344e34d50e6cce8cf8d95c3
Status: Downloaded newer image for shabariganesan/docker_with_flask_form:latest
docker.io/shabariganesan/docker_with_flask_form:latest

C:\Users\ADMIN>
```

run it in docker playground

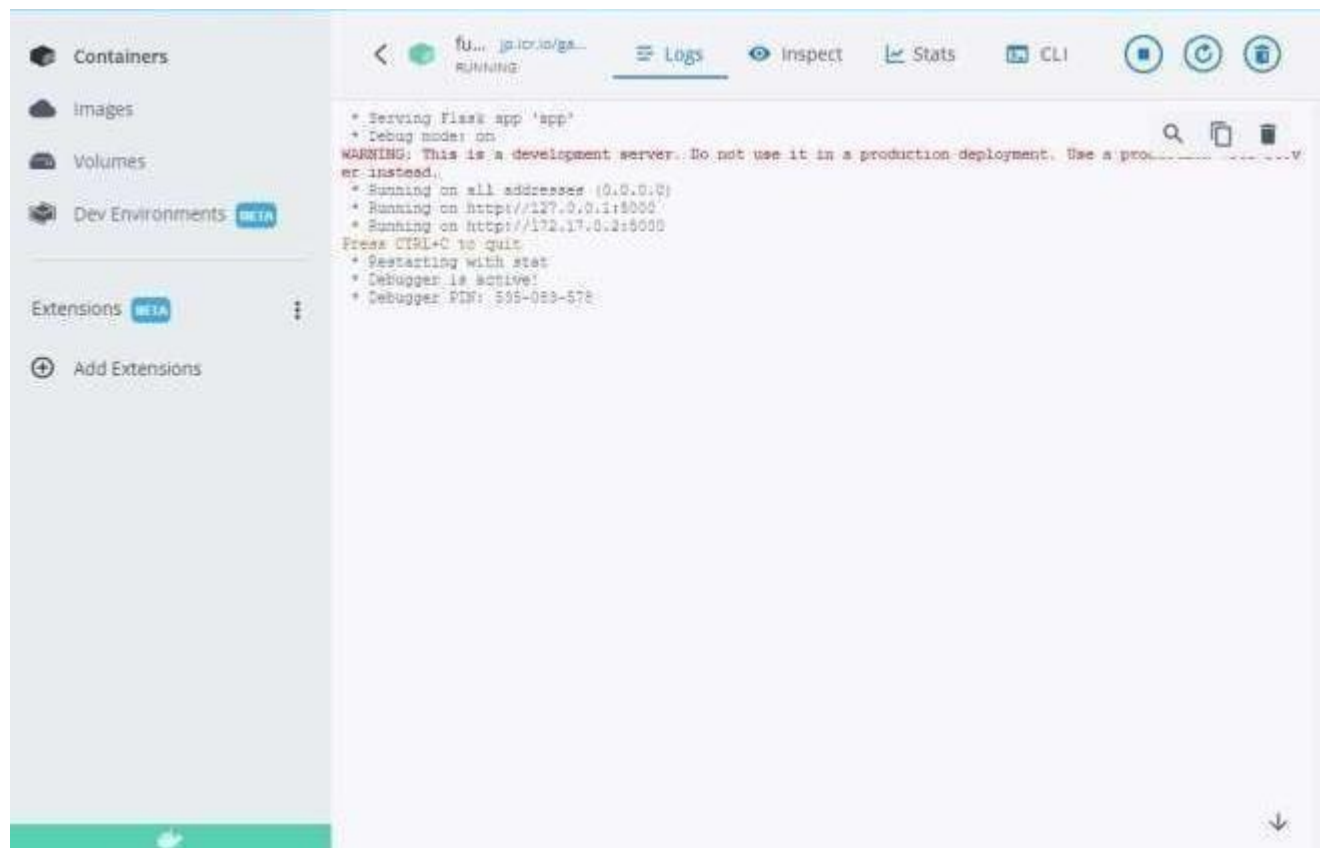




Question-2:

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

Creating a docker file for the jobportal application



running in docker desktop 1

Question-3: Create a IBM container registry and deploy helloworld app or jobportalapp create a IBM container registry



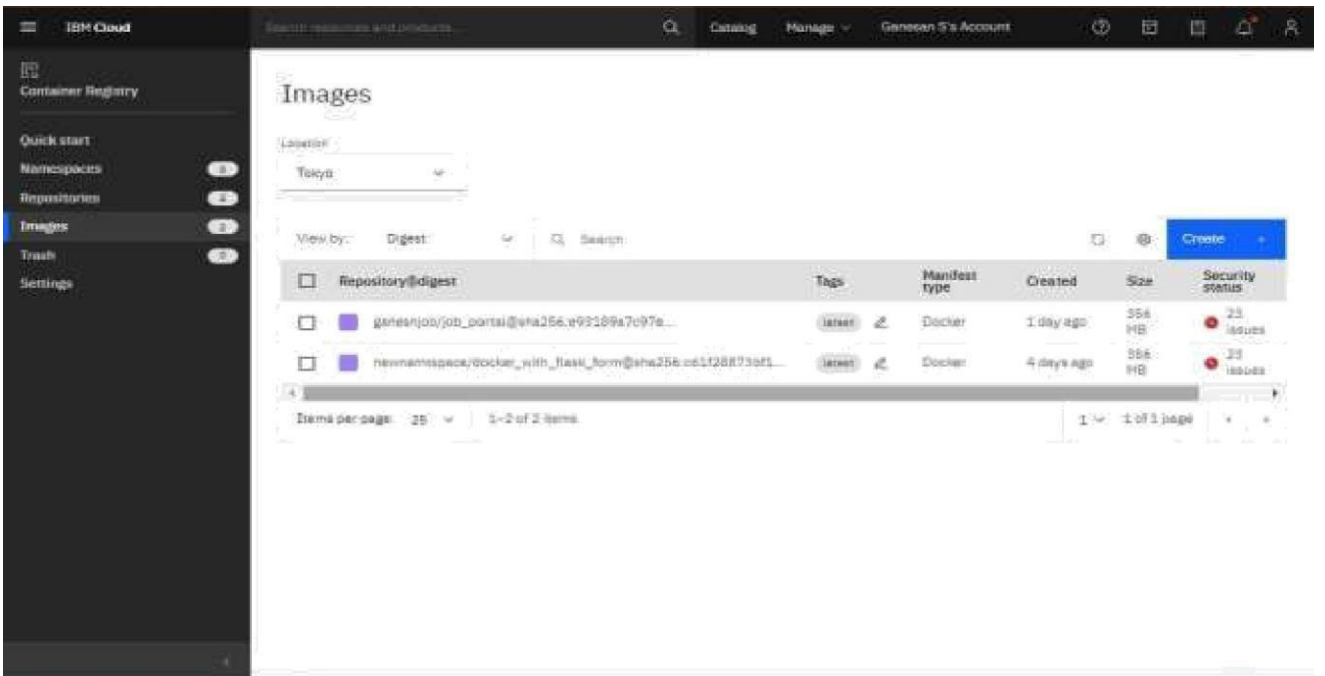
deployhelloworld or jobportal

```
C:\Windows\system32\cmd.exe
44cb5a0fab: Retrying in 1 second
8b51c618126f: Retrying in 1 second
9f6e4d6744: Waiting
a80c1d47b5a1: Waiting
055ed1b74420: Waiting
Failed to lookup host: jp.1cr.io

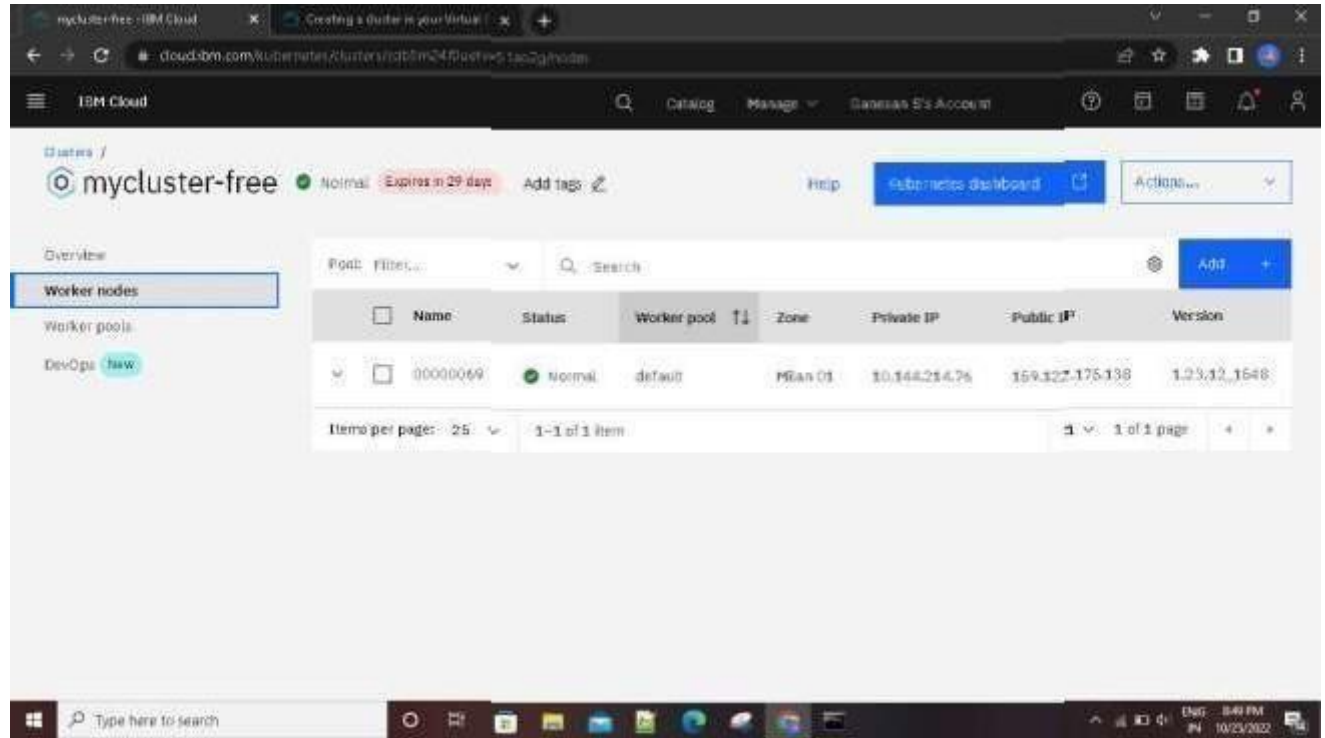
C:\Users\gan1\Desktop\job_portal>docker push jp.1cr.io/ganeshjob/job_portal
Using default tag: latest
The push refers to repository [jp.1cr.io/ganeshjob/job_portal]
13e3b1584025: layer already exists
8be94fb5e186: Pushed
48c2a74ac12b: layer already exists
9b72c7835466: layer already exists
0fc1deb0136e: layer already exists
1f123186824c: layer already exists
3d5eb1152931: Pushed
180796cdf3b1: Pushed
34acb5a0fab: Retrying in 1 second
8b51c618126f: Pushed
9f6e4d6744: Pushed
a80c1d47b5a1: Pushed
055ed1b74420: Pushing [-----] | 89.88PB/134PB
XX

C:\Users\gan1\Desktop\job_portal>docker push jp.1cr.io/ganeshjob/job_portal
Using default tag: latest
The push refers to repository [jp.1cr.io/ganeshjob/job_portal]
13e3b1584025: layer already exists
8be94fb5e186: layer already exists
48c2a74ac12b: layer already exists
9b72c7835466: layer already exists
0fc1deb0136e: layer already exists
1f123186824c: layer already exists
3d5eb1152931: layer already exists
180796cdf3b1: layer already exists
34acb5a0fab: Pushed
8b51c618126f: layer already exists
9f6e4d6744: layer already exists
a80c1d47b5a1: layer already exists
055ed1b74420: Pushed
latest: digest: sha256:e92187a7f97eeb0906660a54e896cf61a40eda039998c8c7a2147a7961fc207 size: 3952

C:\Users\gan1\Desktop\job_portal>
C:\Users\gan1\Desktop\job_portal>
```



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

```
C:\Windows\System32\cmd.exe
10/16/2022 12:28 PM 3,721 windows shortcut.txt
08/25/2022 08:40 PM 2,897 YouTube.lnk
24 File(s) 804,677,196 bytes
9 Dir(s) 79,221,886,976 bytes free

C:\Users\gani\Desktop>cd deploy
The system cannot find the path specified.

C:\Users\gani\Desktop>kubectl apply -f kubernetes/depoly.yaml
error: the path "kubernetes/depoly.yaml" does not exist

C:\Users\gani\Desktop>kubectl apply -f depoly.yaml
error: the path "depoly.yaml" does not exist

C:\Users\gani\Desktop>kubectl apply -f C:\Users\gani\Desktop\deploy.yaml
deployment.apps/flask-app created

C:\Users\gani\Desktop>
```

Search

Workloads > Pods

Deployment

Daemon Set

Waiting for more data to display chart... Waiting for more data to display chart...

Running

Service

```
~/vling Flask app 'app'
bug mode: on
[WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.]
Running on all addresses (0.0.0.0)
Running on http://127.0.0.1:5000
Running on http://172.30.23.11:5000
Press CTRL-C to quit
Starting with stat
bugger is active!
bugger PIN: 116-437-349
```



 [Workloads](#) > [Pods](#) > [flask-app-79447b5c8c-4d9fw](#) > [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 deployment
^C
C:\Windows\system32\kubectl -n kubernetes-dashboard get deployment
No resources found in kubernetes-dashboard namespace.
C:\Windows\system32\kubectl -n kubernetes-dashboard get deployment
No resources found in kubernetes-dashboard namespace.
C:\Windows\system32\kubectl proxy
Starting to serve on 127.0.0.1:8081
^C
C:\Windows\system32\kubectl -n kubernetes-dashboard get deployment
^C
C:\Windows\system32\kubectl -n kubernetes-dashboard get deployment
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 ingress
NAME          CLASS    HOSTS          ADDRESS          PORTS          AGE
flask-app-ingress  cncn    *              *                80            27m
C:\Windows\system32\kubectl get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE

```