Assignment - IV

Docker & Kubernetes

Cloud Application Development

Assignment Date	30 th October 2022
Student Name	Barathkumar S
Student Roll Number	61771921006
Maximum Marks	2 Marks

Question-1:

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

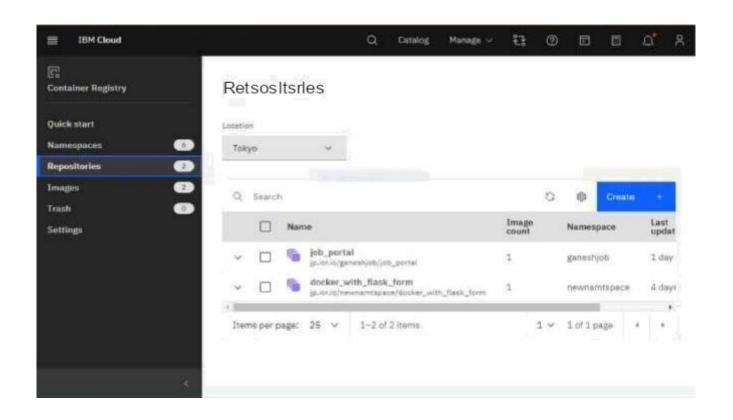
pull an image form docker hub

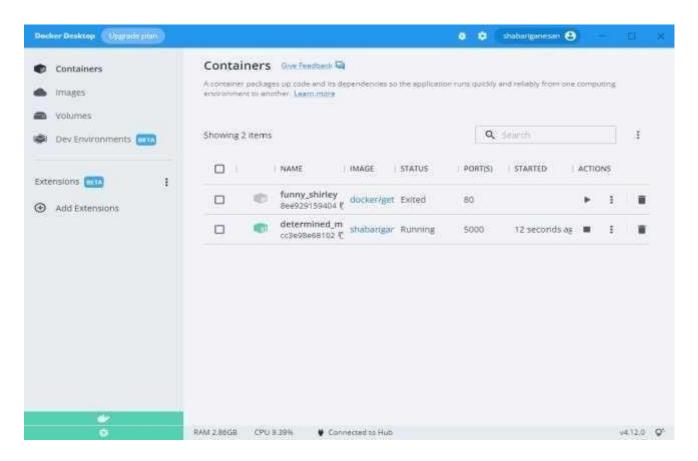
```
Microsoft Mindows (Version 10.0.19044.1766)
(c) Microsoft Corporation. All rights reserved.

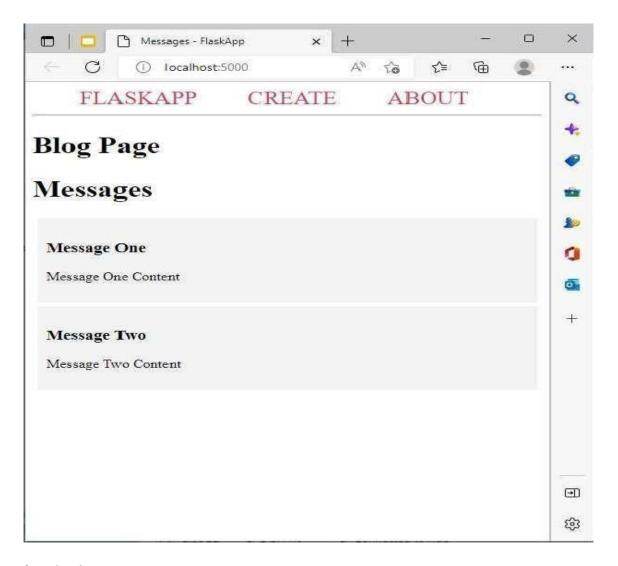
C:\Users\ADMIN>docker push shabariganesan/docker_with_flask_form
Using default tag: latest
Ine push refers to repository [docker.io/shabariganesan/docker_with_flask_form]
An image does not exist locally with the tag: shabariganesan/docker_with_flask_form

C:\Users\ADMIN>docker pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
121stockedf: Pull complete
32e4dilasSer: Pull complete
12e4dilasSer: Pull complete
12e4dila
```

runt 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

```
Fe Eat Seach Whe trooded Linguage Stilling Toll Marc Run Plugim Window

1 FROM python:3.10.6

2 WORKDIR /app

3 COPY requirements.txt ./

4 RUN pip install -r requirements.txt

5 COPY .

6 EXPOSE 5000

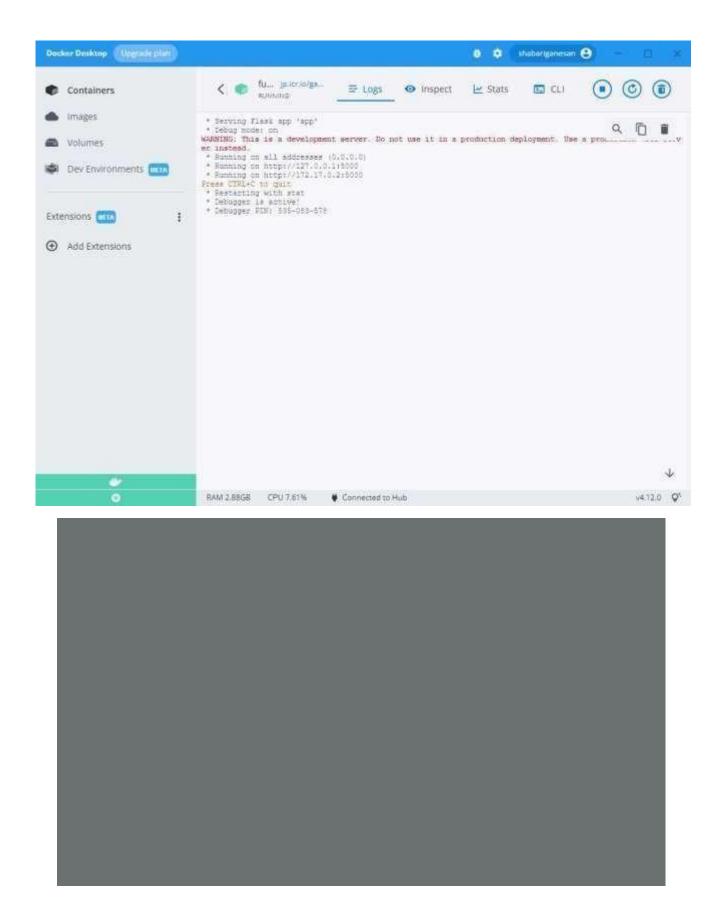
7 CMD ["python", "./app.py"]

8
```

deploy in in dokcer application

```
Constitution of the second production of the s
```

Ccrat ¿ziner S



running in docker desktop 1

Question-3: Create albm container registry and deploy helloworld app or jobportalapp

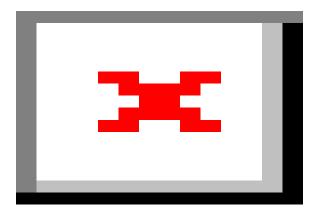
create a ibm container registry

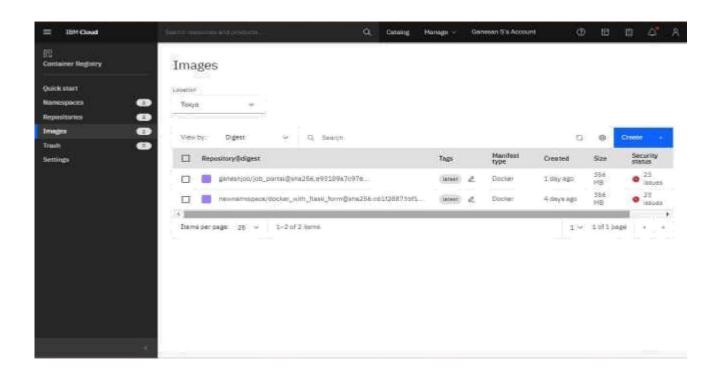
deployhelloworld or jobportal

```
Eachsdrawinghornolizandes

Eachsdrawin Smittyling in i second

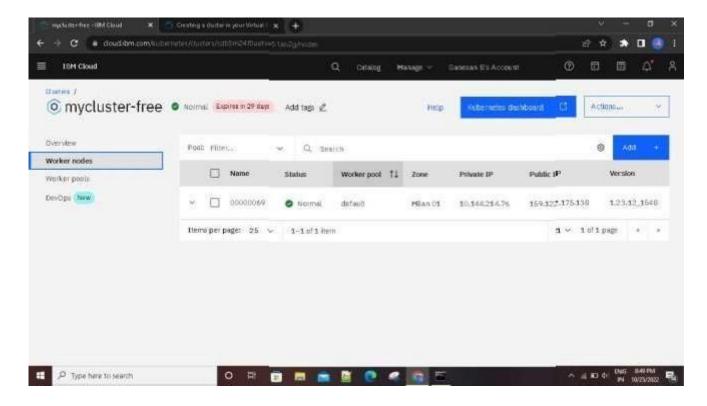
Scincializade, Smittyling in i se
```





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





To C.Windows System 22: Author of the Community of the Co 13 :\Mindows\system32>kubectl eXpose deployment flask app --type-ModePort --name-flask service |
he Service "flask service" is invalid: metadata.mame: invalid value: "flask service"; a DMS-1835 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-z#-9]*(a-z#-9]))') :\Mindows\system32>kubectl expose deployment flask-app. type-kodeFort --name=Flask service
he Service "flask service" is invalid: metsdats name: Invalid value: "flask service": a DMS-1035 label myst consist of lower case alphanumeric characters or "-"
with an alphabetic character, and end with an alphanumeric character (e.g. "my-name", or "abc-123", regex used for validation is "[==2]([-=-z0-9]*[a-z0-9])*) '\Mindows\systemT2\kubectl expose deployment flask-app --type-NodePort --name-flask-service roor from server (Alreadyhxists): services "flask-service" already exists \Mindows\nystem125 \Mindows\nystem325kubectl -n kubernetes-dashboard get depploy \Mindows\system12-kubertl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubect1 -n kubernetus-dashboard gut deploy resources found in kubernetes-dashboard namespace. :\Mindows\system32>kubect1 proxy tarting to serve on 127,0,0,1:8801 \Mindows\system32>kubectl -n kubernetes-dashboard get deplou \Mindows\system32*kubectl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubectl -n kubernetes-dashboard get pods o resources found in kubernetes-dashboard namespace. "Ndindows\systemUZ>Kubectl expose deployment flask-app --type-NodeFort --name-flask service room from server (AlreadyExists): services "flask-service" already exists :\Mindows\system32>kubectl get ing
AMI CLASS HOSTS ADDRESS PORTS AGE
Task-app-ingress cnone> * 80 276 \Mindows\system32>kubect1 get svc UNE TYPE CLUSTER-IP EXTERNAL-ID