Assignment - IV

Docker & Kubernetes

Cloud Application Development

| Assignment Date | 30 th October 2022 |
|---------------------|-------------------------------|
| Student Name | Anandh J |
| Student Roll Number | 61772021T301 |
| Maximum Marks | 2 Marks |

Question-1:

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

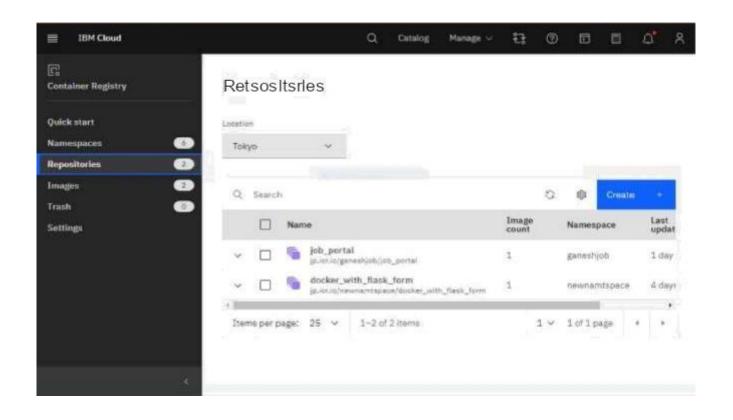
pull an image form docker hub

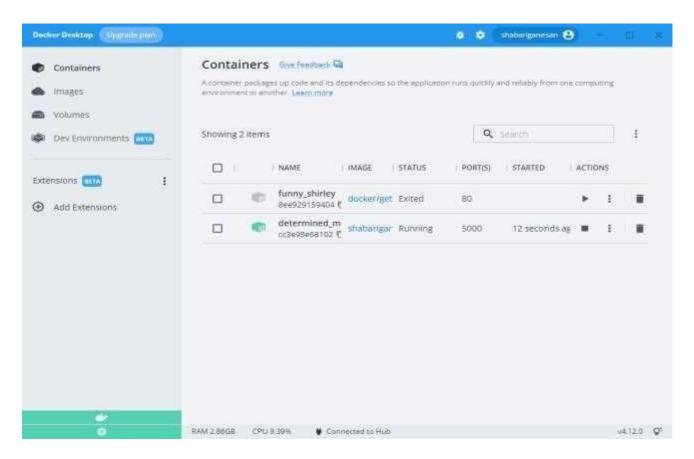
```
TRICKOSOFT. Windows [Version 10.0.19044.1766]

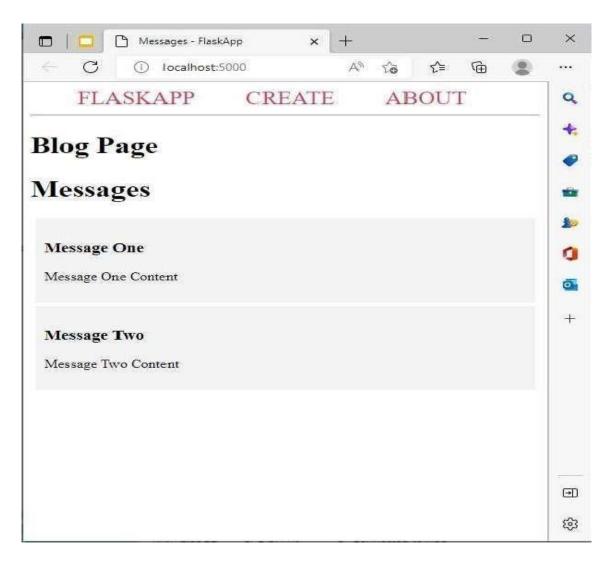
(C) Microsoft. Corporation. All rights reserved.

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
Using default tag: latest
latest pull ing from shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulli complete
1007538C685: Pull complete
1007538C68585: Pull c
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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

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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
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deploy in in dokcer application

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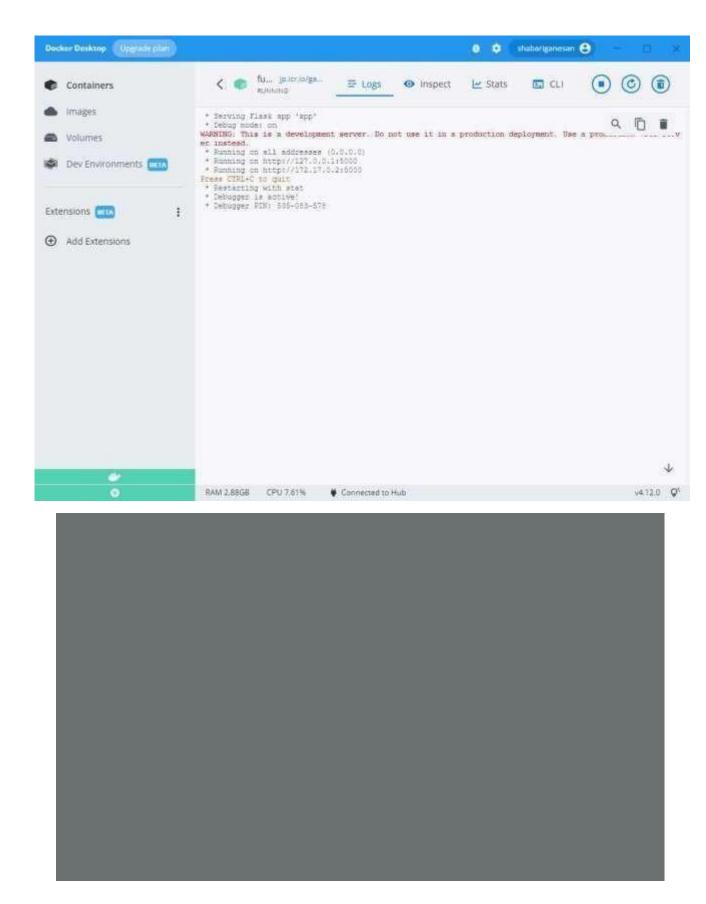
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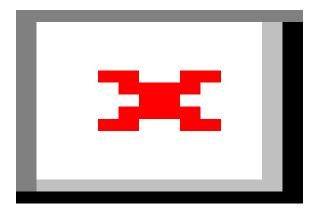


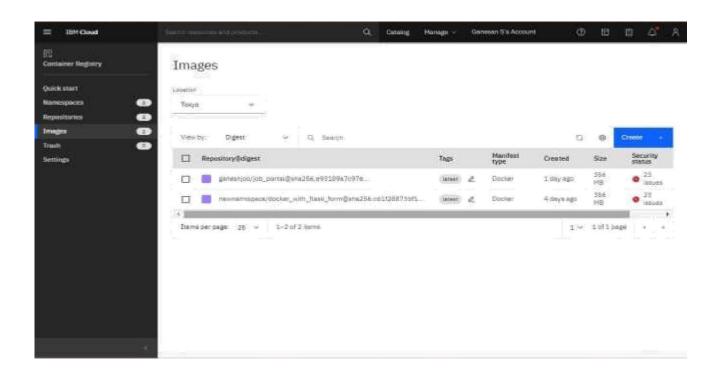
running in docker desktop 1

create a ibm container registry

deployhelloworld or jobportal

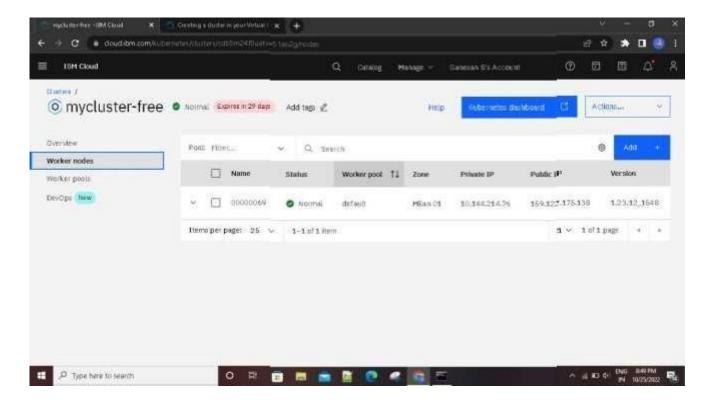
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```





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:\Users\gani\Desktop>kubectl apply -f depoly.yaml
error: the path "depoly.yaml" depoly.yaml
c:\Users\gani\Desktop>kubectl apply -f C:\Users\gani\Desktop\subectl apply -f C:\
```



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ø 'Mindows'systemi2-kubecti expose deployment flask-app —type-NodePort —name-flask service
he Service "flask service" is invalid: metadata.name: Invalid value: "flask service": a DRS-1835 label must consist of lower case alphdnumenic characters or 'with an alphabetic character, and end with an alphabumenic character (e.g. "my name", or "abc 123", regex used for validation is "(a-z)([-a-z6-9]*[a-z6-9])2") :\Mindows\system32;Nubectl expose deployment flask-app .type-NudePort .name=flask service
he Service "flask service" is invalid: metadata_name: Invalid value: "flask service"; a DNS-1835 label must consist of lower case alphanumenic characters or '-', start
with an alphabetic character, and end with an alphanumenic character (e.g. 'my name', or 'abc-123', regex used for validation is '(==2)((==2#-9)*(=2#-9))*') :\Mindows\system32>kubectl expose deployment flask:app. type-NodePort - name=Flask service
he Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DMS-1895 label must 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 [m-z]([-m-zM-9])*[m-zM-9])*) \Mindows\systemIZ>kubect1 expose deployment flask-app --type-NodePort --name-rlask-service row from server (AlreadyRxists): services "flask-service" already exists \Mindows\system32> \Mindows\system32>kubecti -n kubernetws-dashboard get depploy \Mindows\systemiZ>kubectl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubert1 -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. \Windows\system32>kubectl -n kubernetes-dashboard get pods o resources found in kubernetes-dashboard namespace. :\Windows\system32\kubecti expose deployment flask-app --type-NodePort --name-flask-service rror from server (&lreadyExists): services "Flask-service" already exists :\Mindows\system32>kubectl get ing
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Task-app-ingress chomes * 80 276 \Windows\system32>kubect1 get avç
ME TYPE CLUSTER-IP EXTERNAL-ID