Assignment - IV

Docker & Kubernetes

Cloud Application Development

Assignment Date	30 th October 2022
Student Name	GokulaKrishnan G K
Student Roll Number	61772021T302
Maximum Marks	2 Marks

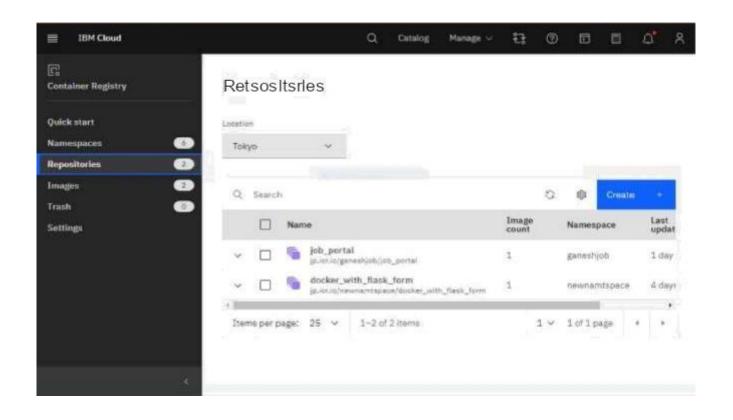
Question-1:

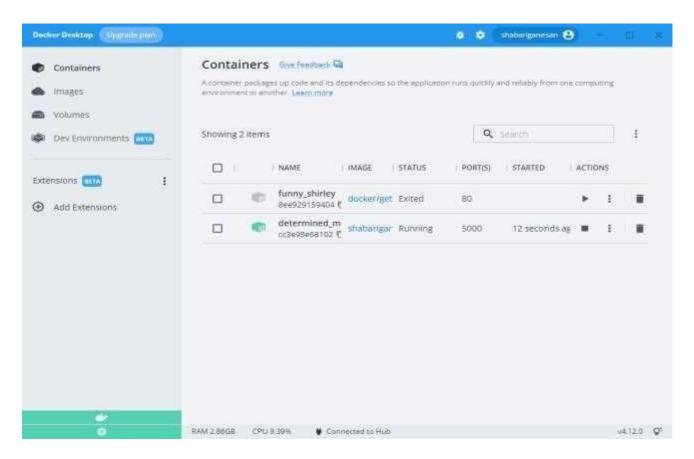
pull an image from docker hub and run it in docker playground.

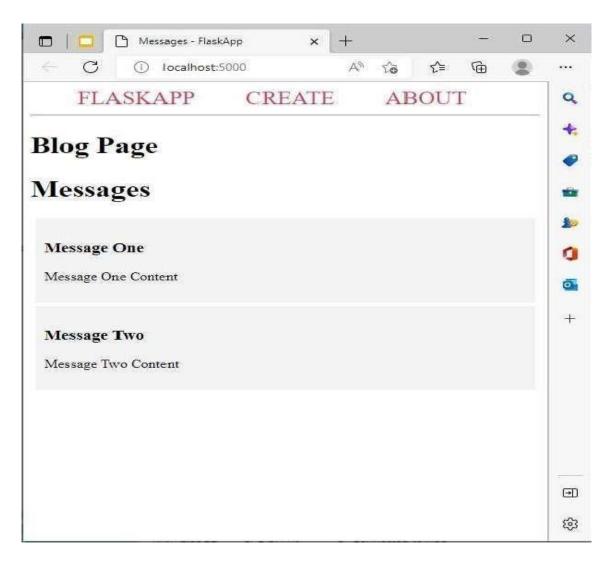
pull an image form docker hub

```
## Command Prompt
## Construction | 10.0.19044.1766|
## Construction | 10.0.19044.1766
```

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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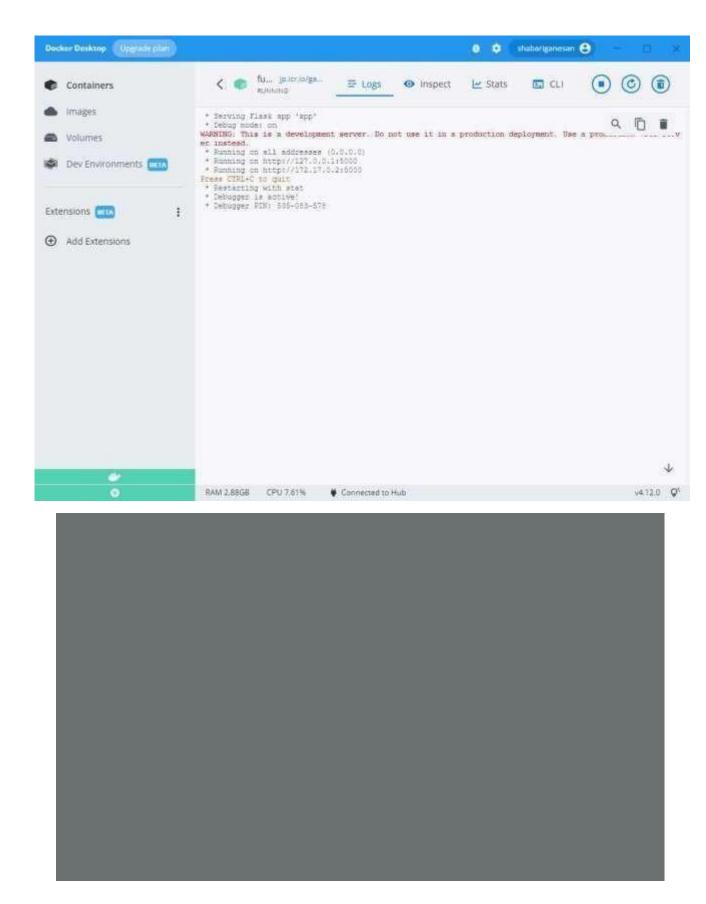
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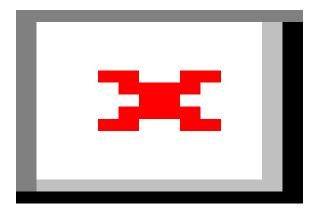


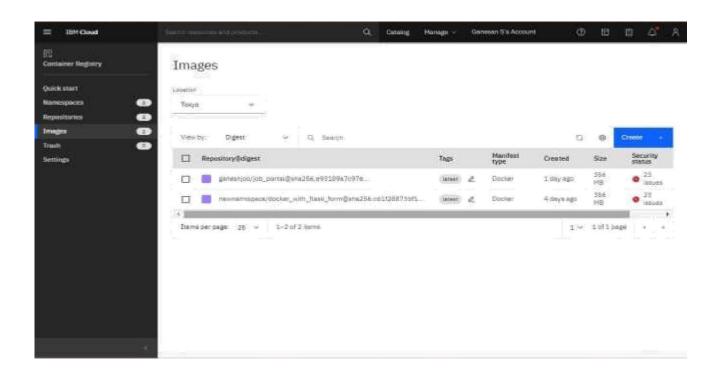
running in docker desktop 1

create a ibm container registry

deployhelloworld or jobportal

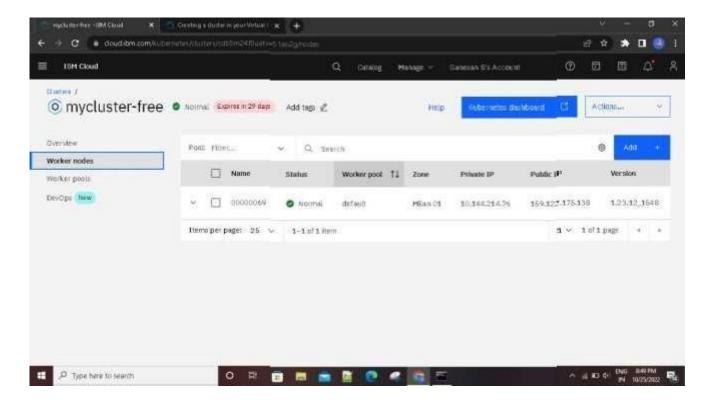
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```





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