Assignment - IV

Docker & Kubernetes

Cloud Application Development

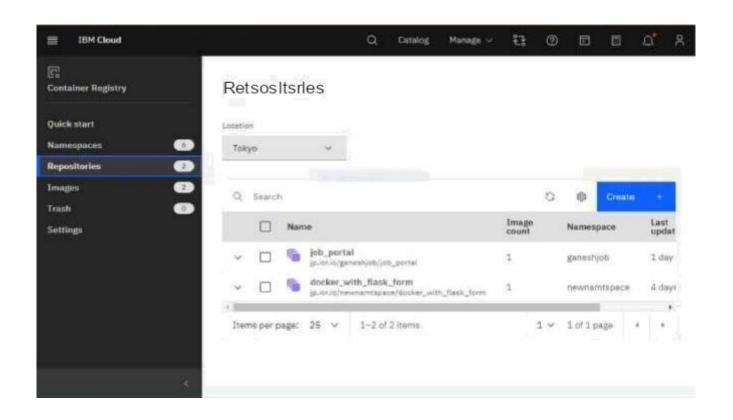
Assignment Date	30 th October 2022
Student Name	Devarajathirajan S
Student Roll Number	61771921009
Maximum Marks	2 Marks

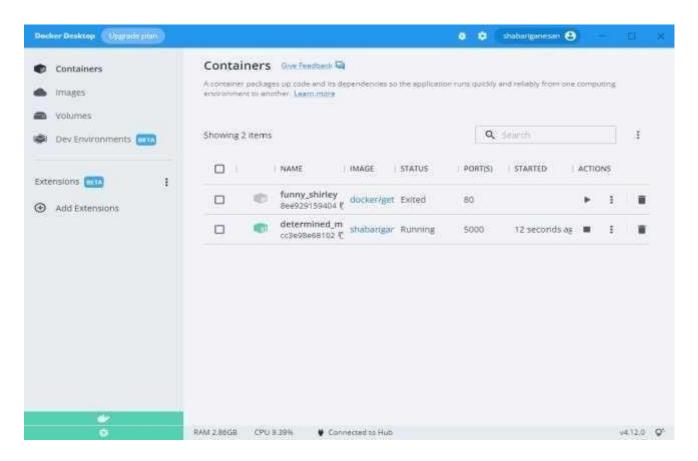
Question-1:

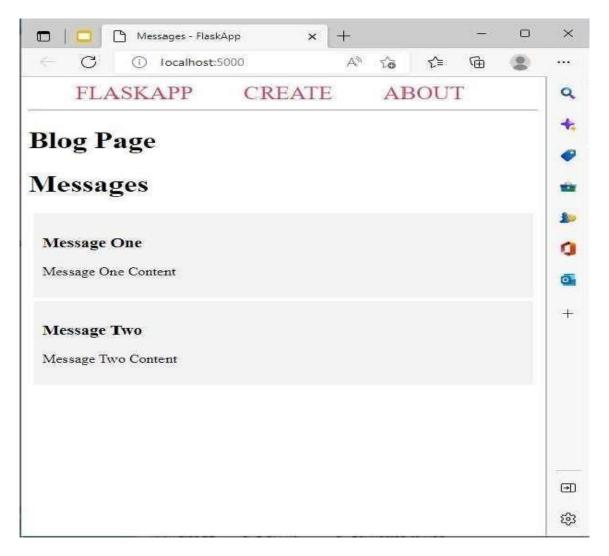
pull an image from docker hub and run it in docker playground.

pull an image form docker hub

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

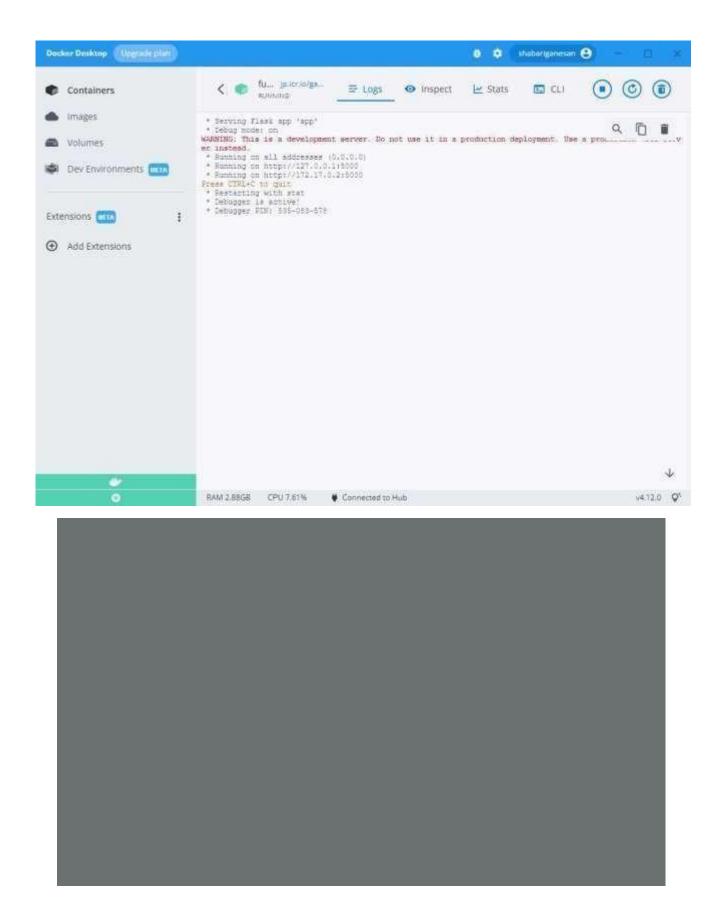
7 CMD ["python", "./app.py"]

8
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deploy in in dokcer application

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running in docker desktop 1

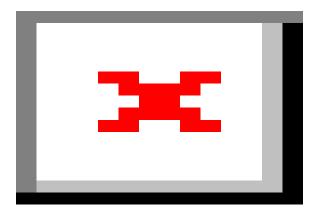
Question-3: Create albm container registry and deploy helloworld app or jobportalapp

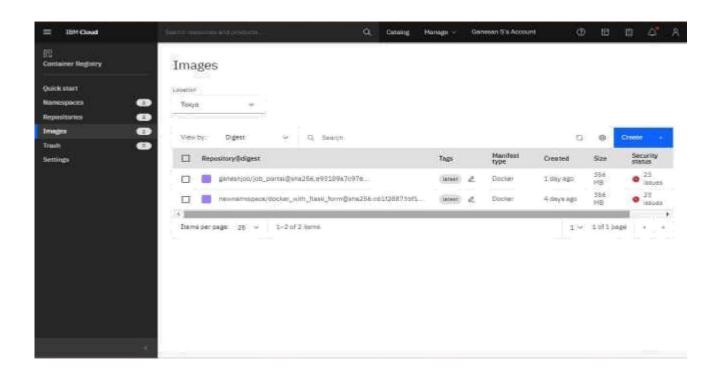
create a ibm container registry



deployhelloworld or jobportal

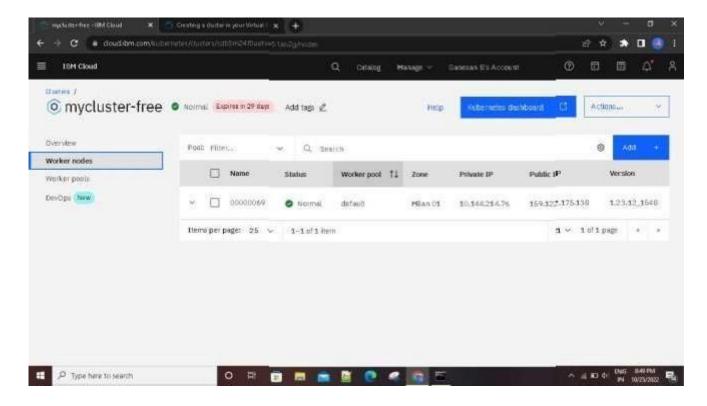
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Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport

Creating a kubernetes cluster in ibm cloud



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





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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