Assignment-4

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Batch No	B9 - 3A5E
Project Name	Inventory Management System for Retailers
Team ID	PNT2022TMID31796

Question-1:

pull an image from docker hub and run it in docker

playground.pullan image form dockerhub

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### Command Prompt

Microsoft Windows [Version 10.0.19044.1766]
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C:\Users\ADMINY-docker push shabariganesan/docker_with_flask_form

Using default tag: latest

The push refers to repository [docker.io/shabariganesan/docker_with_flask_form]

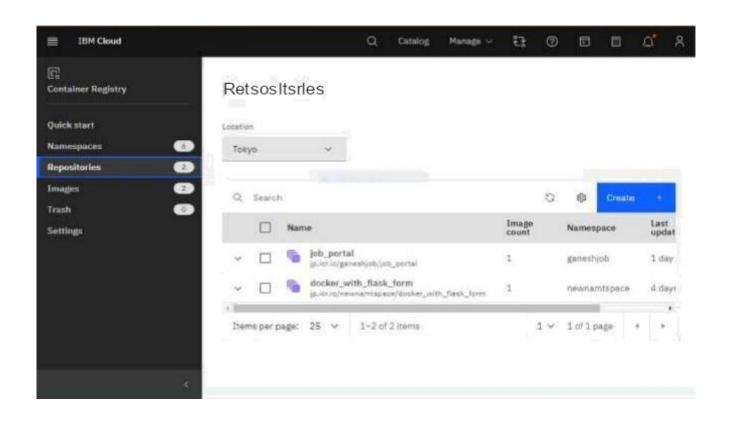
An image does not exist locally with the tag: shabariganesan/docker_with_flask_form

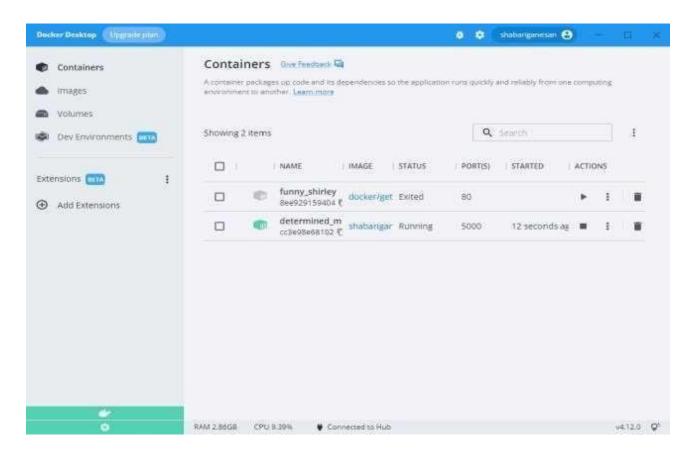
Using default local latest

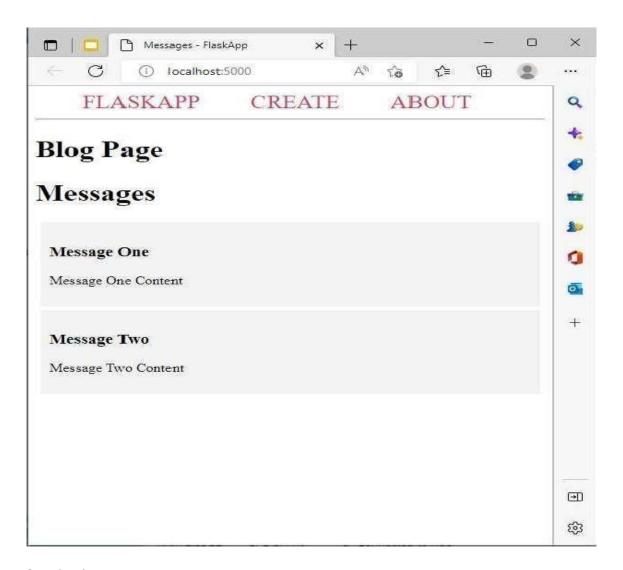
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Question-2:

Create a docker file for the job portal application and deployitin docker application.

Creating a docker file for the job portal 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"]
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deployinindokcerapplication

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Ose: Souler Soila - Helpi...

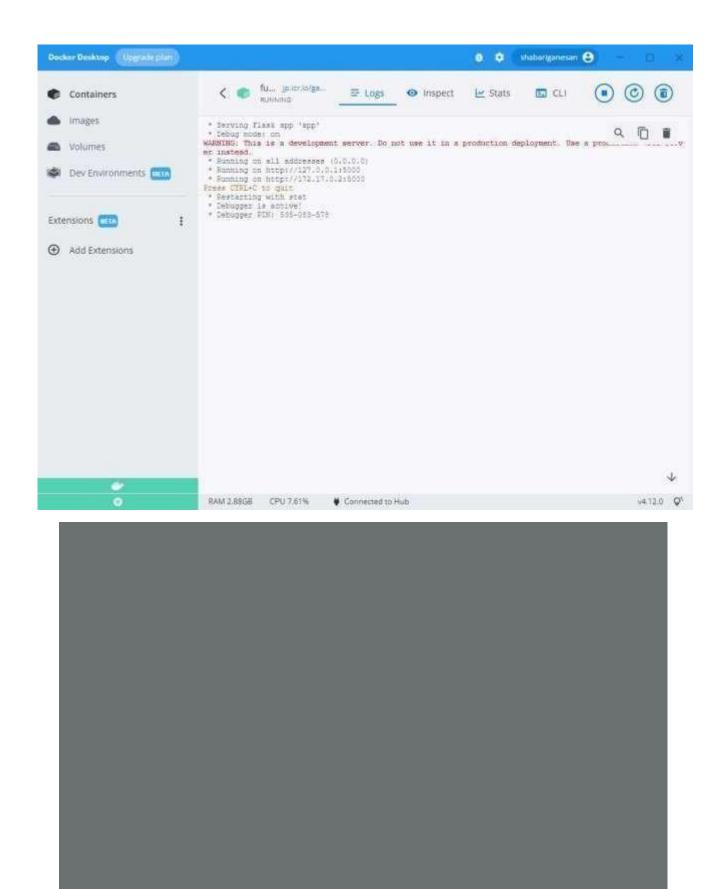
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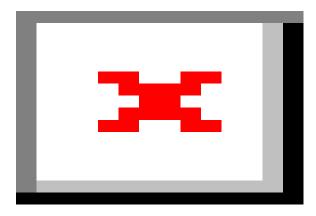
runningindockerdesktop1

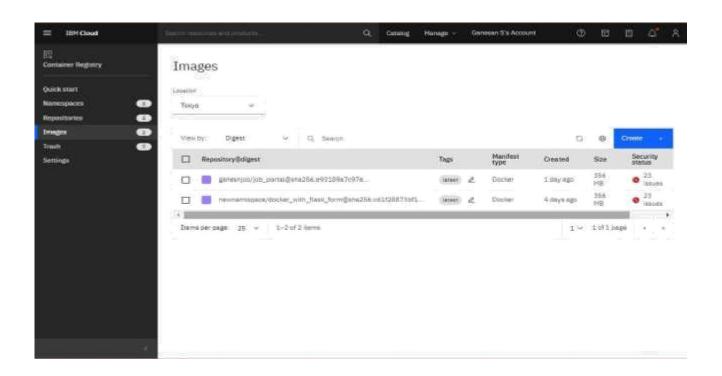
Question-3: Createa Ibm container registry and deploy helloworldapp or jobportal app

createa ibm container registry

deployhelloworldorjobportal

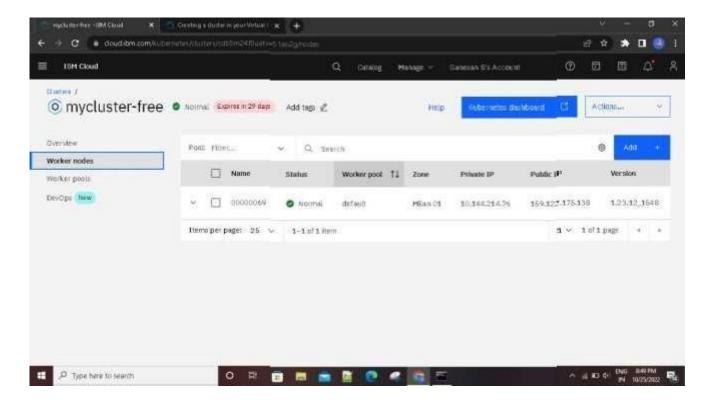
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Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also exposethesameapp to run in noteport

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deploy helloworld image or job portalimage and also expose the same apptor uninnote portaline and also expose the same apptor uninnote portaline.



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Deployment

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Running

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 get 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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