Assignment-4

Student Name	ARUN R
Batch No	B9 - 3A5E
Project Name	NEWS TRACKER APPLICATION
Team ID	PNT2022TMID31792

Question-1:

pull an image from docker hub and run it in docker

playground.pullan image form dockerhub

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

C:Vusers ADMINodocker push shabariganesan/docker_with_flask_form
Using default sag: 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

C:Vusers ADMINOdocker pull shabariganesan/docker_with_flask_form

Using default tag: latest
Latest: Pulling from shabariganesan/docker_with_flask_form

Listest: Pull complete

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480920556661: Pull complete

483402768293: Pull complete

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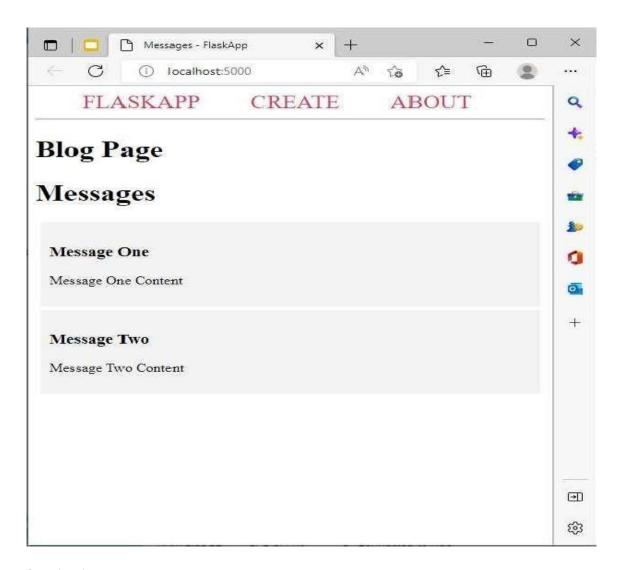
81360276880: Pull complete

8136027680: Pull complete
```

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Question-2:

Create a docker file for the job portal application and deployit indocker application.

Creating a docker file for the job portal application

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FROM python: 3.10.6

WORKDIR /app

COPY requirements.txt ./

RUN pip install -r requirements.txt

COPY .

EXPOSE 5000

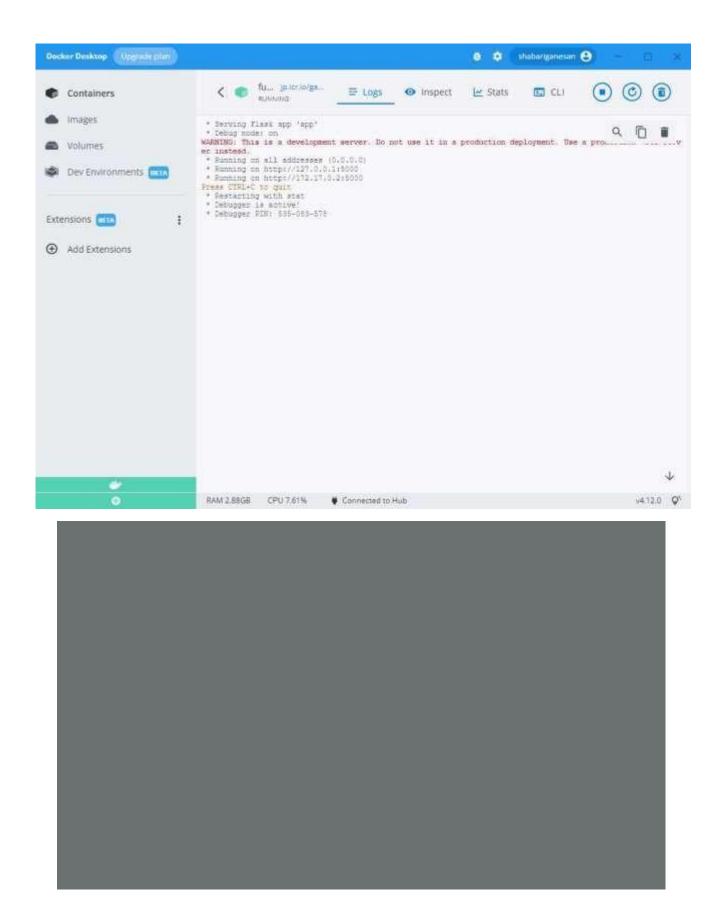
CMD ["python", "./app.py"]
```

deployinindokcerapplication

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running indocker desktop 1

createa ibm container registry

deployhelloworldorjobportal

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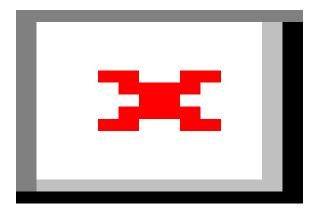
district 812061 Sets ying in 1 second

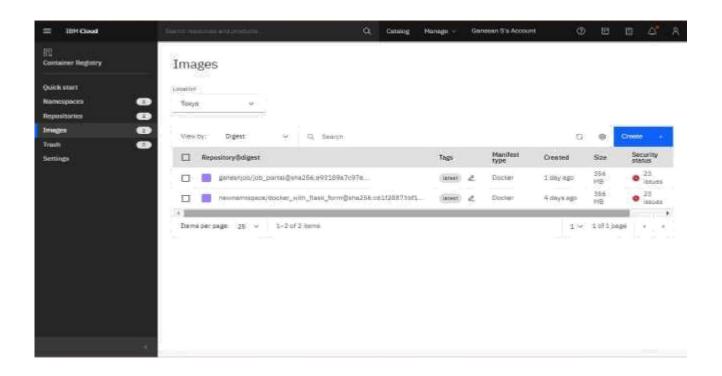
filed to 1 sets ying in 1 second

district 812061 Sets ying in 1 second

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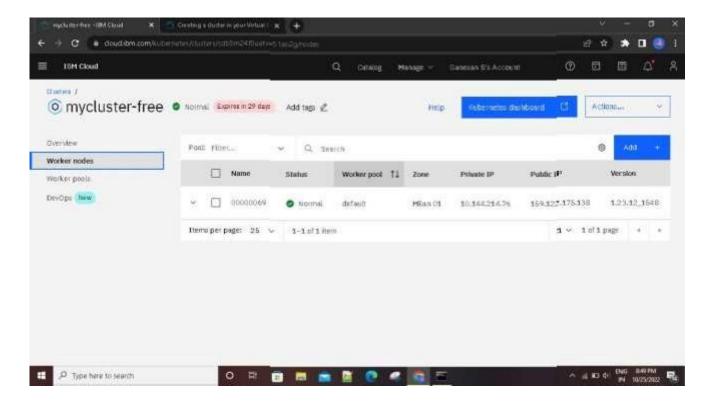
district 1 seps al
```





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 portalization of the contraction of the c

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Deployment

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aggrander. This is a development surver. Do not use it in a production deployment. Use a graduation MSGI server instead. Njon
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whing on http://127.0.0.15800
ming on http://127.0.0.20.115000
ming on http://127.0.0.20.115000
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august is active!

suggest PIN: 316-407-149

Services

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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]([-a-zH-9]*[a-zH-9])')' :\Windows\system32>kuhecti expose deployment flask-app --type-NodePort --name-Flask service
he Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DNS-1035 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 "[a-z]([-a-z0-9]*[a-z0-9])?") \Mindows\systemIZ>kubect1 expose deployment flask-app -type-NodePort --name-flask-service ror from server (AlreadyLxists): services "flask-service" already exists \Mindows\system32> \Mindows\system32>kubect1 -n kubernetws-dashboard get depploy \Mindows\system12\kubert1 -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubert1 -n kubernetez-dashboard get deploy resources found in kubernetes-dashboard namespace. :\Windows\system32>kubect1 proxy tarting to serve on 127,0,0,1:8001 \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. \Mindows\system32\kubect1 expose deployment flask-app --type-NodeFort --name-flask-service row from server (AlreadyExists): services "flask-service" already exists :\Mindows\system32>kubectl get ing
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Task-app-ingress cnone> * 80 278 :\Mindows\system32>kubect1 get avc AME TYPE CLUSTER-IP EXTERNAL-ID