Assignment -4

Question-1:

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

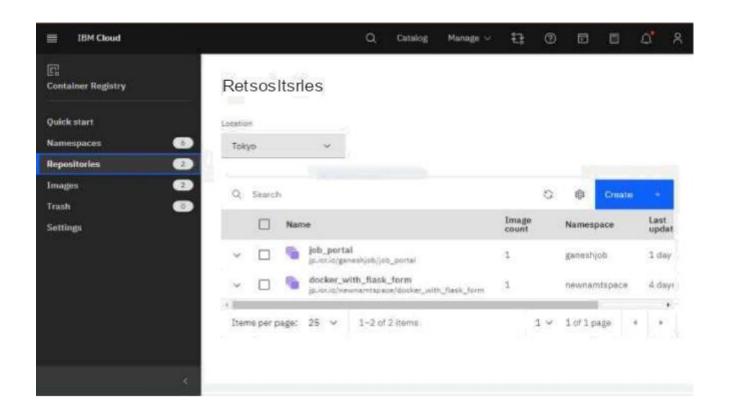
pull an image form docker hub

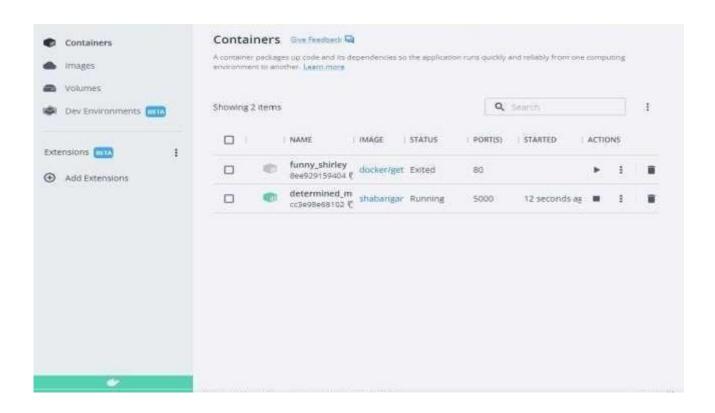
```
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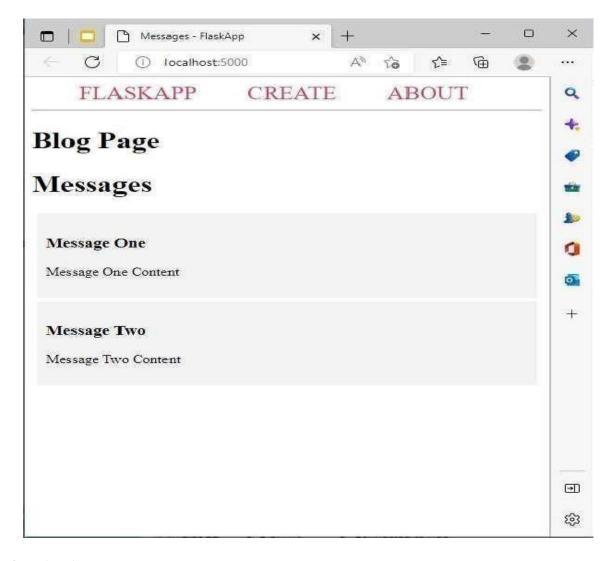
Ricrosoft Windows [Version 10.0.19044;1766]
(c) Microsoft Corporation. All rights reserved.

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
C:\Users\ADMIN>docker_pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
187:1555cc38f; Pull complete
faucr528cc88f; Pull complete
faucr528cc88f; Pull complete
faucr528cc88f; Pull complete
domposition [Pull complete
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```

run 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

```
FROM python:3.10.6

WORKDIR /app
3 COPY requirements.txt ./
4 RUN pip install -r requirements.txt
5 COPY .

EXPOSE 5000
7 CMD ["python", "./app.py"]
```

deploy in in dokcer application

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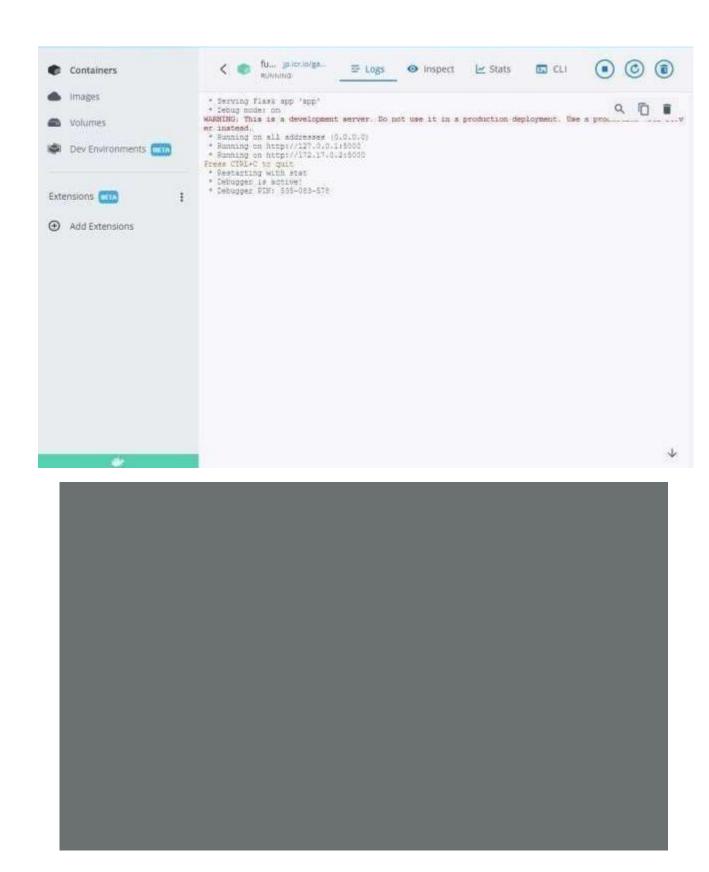
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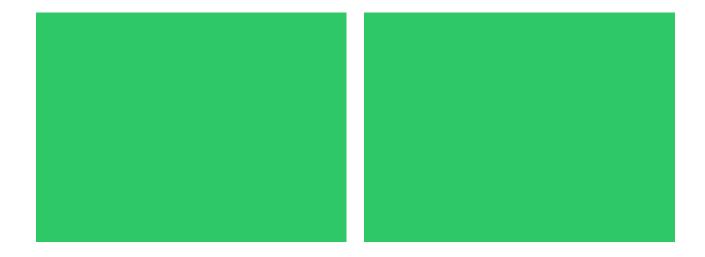
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running in docker desktop 1

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



deployhelloworld or jobportal

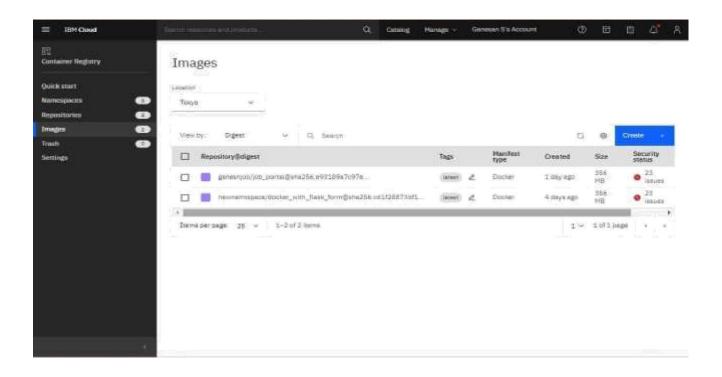
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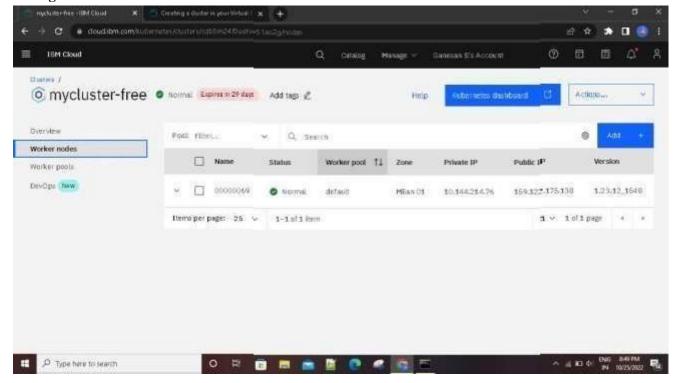
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 ${\bf Question \hbox{-}4: Create\ a\ kubernetes\ cluster\ in\ ibm\ cloud\ and\ deploy\ helloworld\ image\ or\ jobportal\ image\ and\ also\ expose\ the\ same\ app\ to\ run\ in\ noteport}$

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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 C:\Windows\System32\cmd.exe
                                           3,721 windows shortcut.txt
10/16/2022
               12:28 P
                                           2,897 YouTube.lnk
08/25/2022
               08:40 PM
                  24 File(s)
                                    804,677,196 bytes
                   9 Dir(s) 79,221,886,976 bytes free
C:\Users\gani\Desktop>cd deploy
The system cannot find the path specified.
C:\Users\gani\Desktop>kubectl apply -f kubernetes/depoly.yaml
error: the path "kubernetes/depoly.yaml" does not exist
C:\Users\gani\Desktop>kubectl apply -f depoly.yaml
error: the path "depoly.yaml" does not exist
C:\Users\gani\Desktop>kubectl apply -f C:\Users\gani\Desktop\deploy.yaml
deployment.apps/flask-app created
C:\Users\gani\Desktop>
```

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Workloads 3	Pods		

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■ Workloads > Pods > Bank-app-79447b5c8c-48bww > Logs

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he Service "flack sorvice" is invalid: metadata.name: Invalid value: "flack service": a DNS-3035 label must consist of lower case alphanumenic characters or '...
with an alphabetic character, and end with an alphanumenic character (e.g. "my name", or "abc 123", regex used for validation is "[a-2]([-a-20-9]*[a-20-9])2") :\Windows\system32>kubectl eMpose 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 '-', start with an alphabetic character, and end with an alphanumeric character (e.g. 'my-name', or 'abc-123', regex used for validation is '(=-z|([-a-zH-9]-(a-zH-9]-))') :\Windows\system32>kubectl expose deployment flask-app - type-NodePort - name-flask service he Service "flask_service" is invalid: metadata.name: Invalid value: "flask_service": a DNS-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]))") ·Ndindows\systemIZ>kubectl expose deployment flask-app --type-NodePort --name+Flask-service roor from server (AlreadyLxists): services "flask-service" already exists \Windows\system32>kubect1 -n kubernetes-dashboard get depploy Windows\systemi2>kubectl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Windows\system32-kubectl -n kubernetus-dashboard gut deploy o 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 presources found in kubernetes-dashboard namespace, "Nimdows\system32>kubectl expose deployment Flask-app --type-NodePort --rror from server (AlreadyExists): services "Flask-service" already exists -name-flask-service :\Mindows\Aystemi2>kubectl get ing AMI CLASS HOSTS ADDRESS PORTS AGE Eask-upp-ingress cnone> * 80 27m \Windows\system32>Kubect1 get svc GHE TYPE CLUSTER-IP