## **ASSIGNMENT 4**

**TEAM ID: PNT2022TMID50559** 

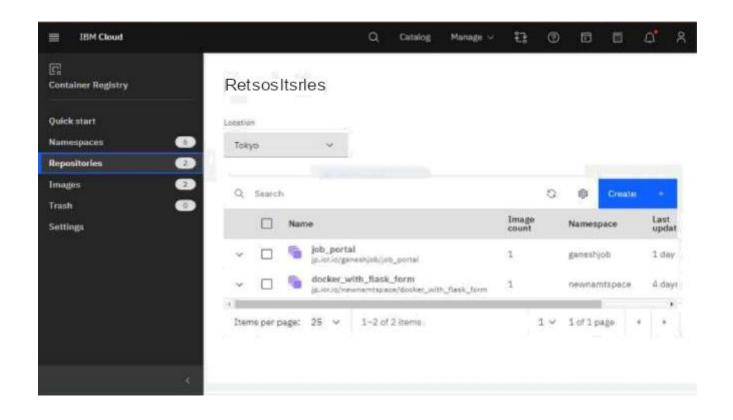
PROJECT NAME: CONTAINMENT ZONE ALERTING APPLICATION

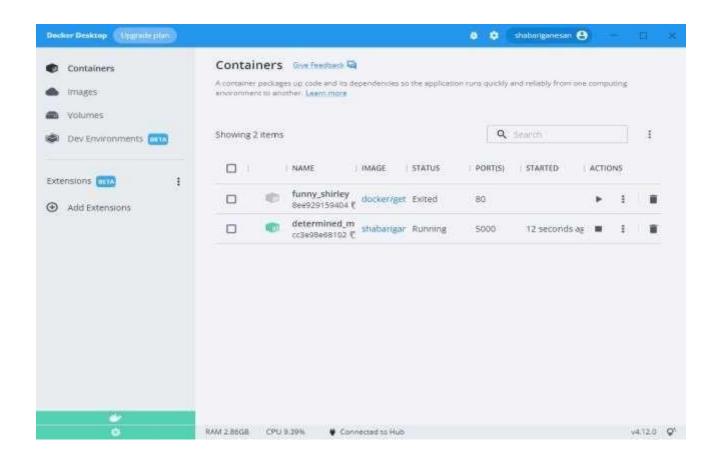
STUDENT NAME: P.AMUTHA

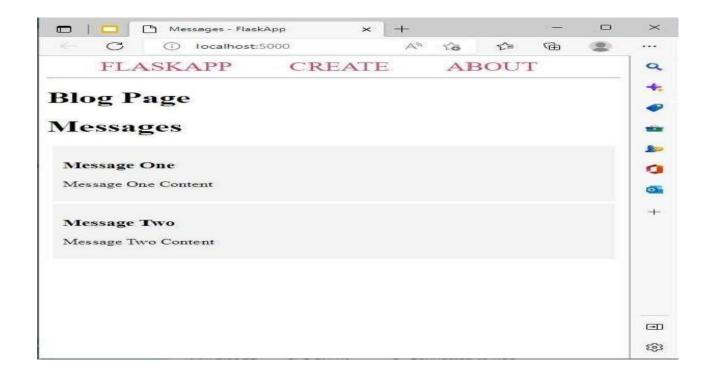
## **Question-1:**

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

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 ticrosoft Windows [Version 10.0.19044.1766]
 (c) Microsoft Corporation. All rights reserved.
 :\Users\ADMIN>docker push shabariganesan/docker_with_flask_form
Using default tag: latest
Osing delayer tog. latest
The push refers to repository [docker.lo/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
1671565cc8df: Pull complete
 3e94d13e55e7: Pull complete
Fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: Pull complete
c71afc637d59: Pull complete
 864a10b3c704: Pull complete
4334b2fe8293; Pull complete
 944570703f4: Pull complete
 885911288d0: Pull complete
 86f369ca59f: Pull complete
e113bd27b88e: Pull complete
Digest: sha256:c61f28873bf1c909786ce991b8b60cd976765077f344e34d50e6cce8cf8d95c3
Status: Downloaded newer image for shabariganesan/docker_with_flask_form:latest
docker.io/shabariganesan/docker_with_flask_form:latest
 :\Users\ADMIN>
```







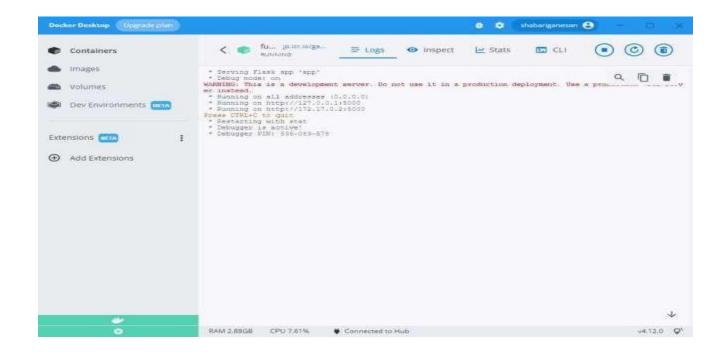
## **Question-2:**

Create a docker file for the jobportal application and deploy it in docker application.

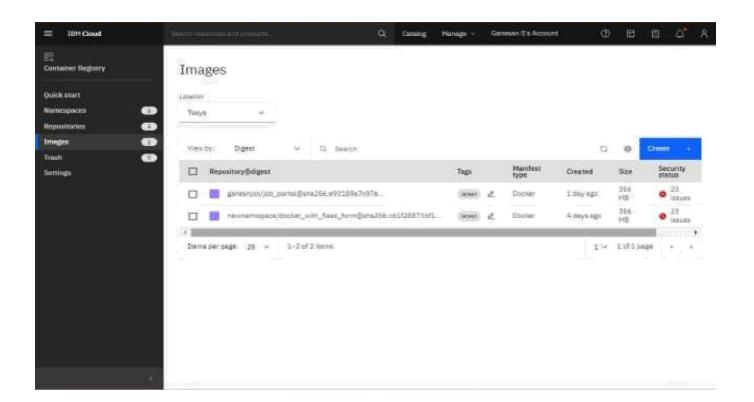
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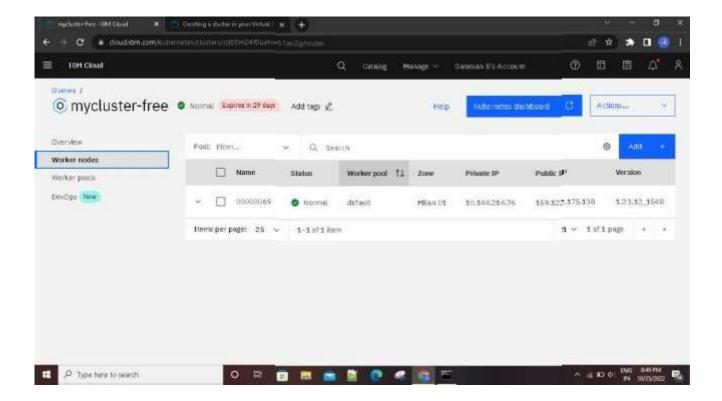


Question-3: Create a Ibm container registry and deploy helloworld app or jobportalapp



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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



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'Windows'system32-kubecti expose deployment flask app - type-BodePort - name-flask service

Service "flask service" is invalid: metadata.name: Invalid value: "flask service" a DKS 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])2')
:\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:1035 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-z]([-a-zH-9]*[a-zH-9])?')
:\Windows\system32>kubectl expose deployment flask-app - type-kodePort - name=flask service
he Service "flask_service" is invalid: metsdata_name: Invalid value: "flask_service": a DNS-1095 label most 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-zN-9]*[a-zN-9])?")
'Nindows\system32%kubectl expose deployment flask-app --type-NodePort --s
roor from server (AlreadyExists): services "flask-service" already exists
 \Mindows\system32>
\Mindows\system32>kubectl -n kubernetes-dashboard get depploy
  \Mindows\system2>kubectl -n kubernetes-dashboard get deploy
resources found in kubernetes-dashboard name;paca.
 \Mindows\system32*kubert1 -n kubernetus-dashboard get deploy
resources found in kubernetes-dashboard namespace.
 \Windows\system32>kubect1 proxy
arting to serve on 127,0.0.1:8001
 \Mindows\system3Zykubectl -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
resources found in kubernetes-dashboard namespace.
:\Windows\systemIZ>kubectl expose deployment Flask-app --type-NodePort --
rror from server (AlreadyExists): services "Flask-service" already exists
                                                                                                                                                 -name-flask-service
 \Mindows\system12>Mubectl get ing
JMI CLASS HOSTS ADDRESS PORTS AGE
Lask-app-ingress cnones * NO 276
 \Windows\system32>kubect1 get avc
Type CLUSTER-IP
                                                                                               EXTERNAL-ID
```