### **Assignment-4**

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Batch No	B9 - 3A5E
Project Name	CONTAINMENT ZONE ALERTING APPLICATION
Team ID	PNT2022TMID31809
Register No	721219104021

### **Question-1:**

pull an image from docker hub and run it in docker

playground.pullan image form dockerhub

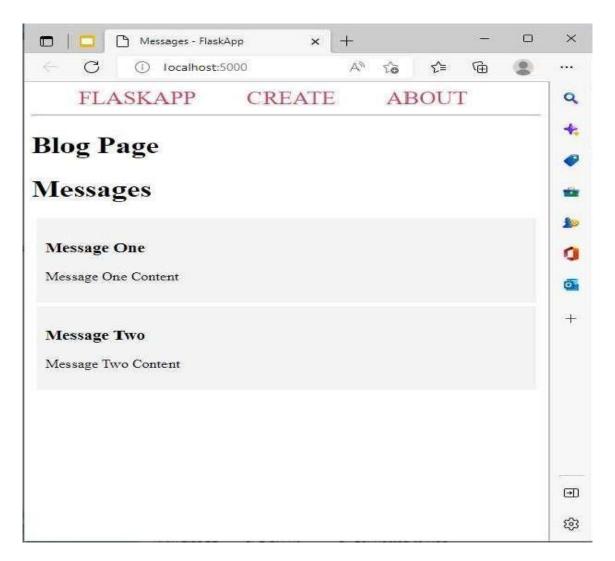
```
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\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
Lising default tag: latest
Listest Pulling From shabariganesan/docker_with_flask_form
Using default tag: latest
Listest Pulling From shabariganesan/docker_with_flask_form
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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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Fig. Early New Encoding Language Setting Toll Macro Num Plugins Window 1

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
```

#### deployinindokcerapplication

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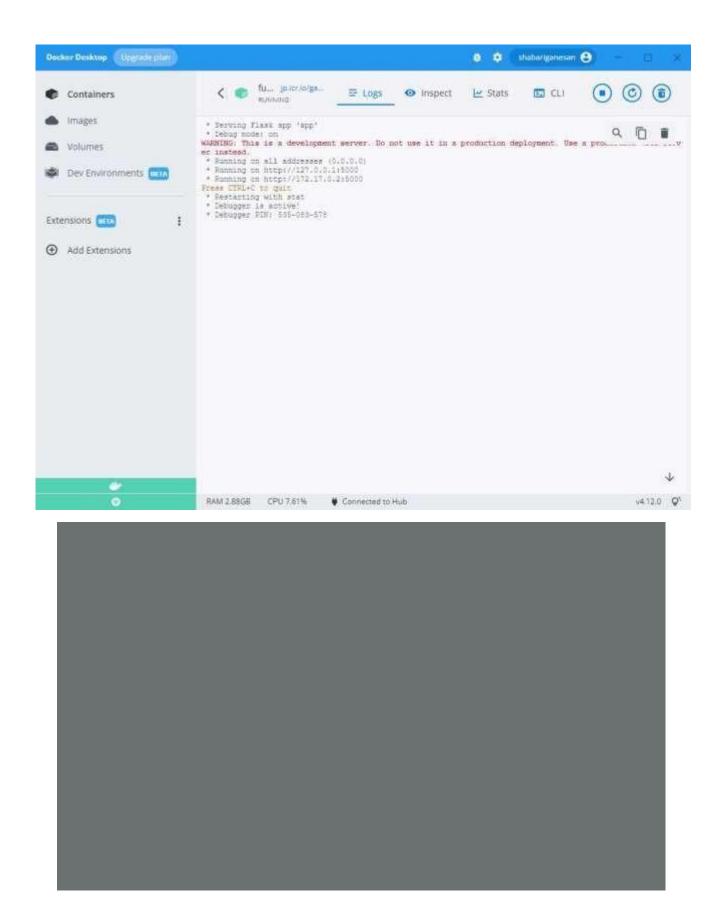
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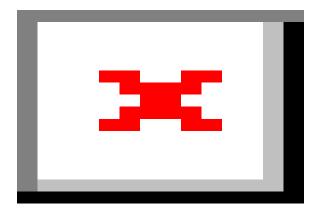
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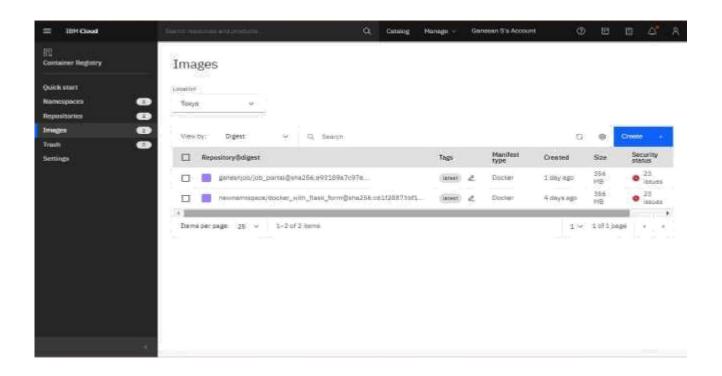


runningindockerdesktop1

## createa ibm container registry

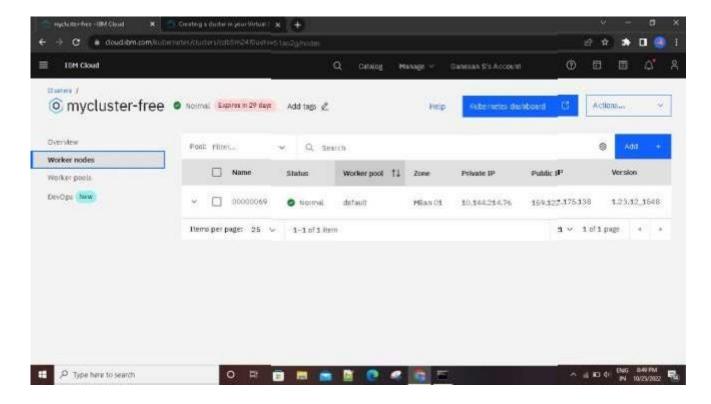
### deployhelloworldorjobportal





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

#### Creatingakubernetesclusterinibmcloud



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ming on http://122.0.0.25800
starting with static
sugger is active;
sugger FIN: 310-687-549

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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