

Assignment-4

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Batch No	B9 - 3A5E
Project Name	Smart Fashion Recommender Application
Team ID	PNT2022TMID31802

Question-1:

pull an image from docker hub and run it in docker

playground.pullan image form dockerhub

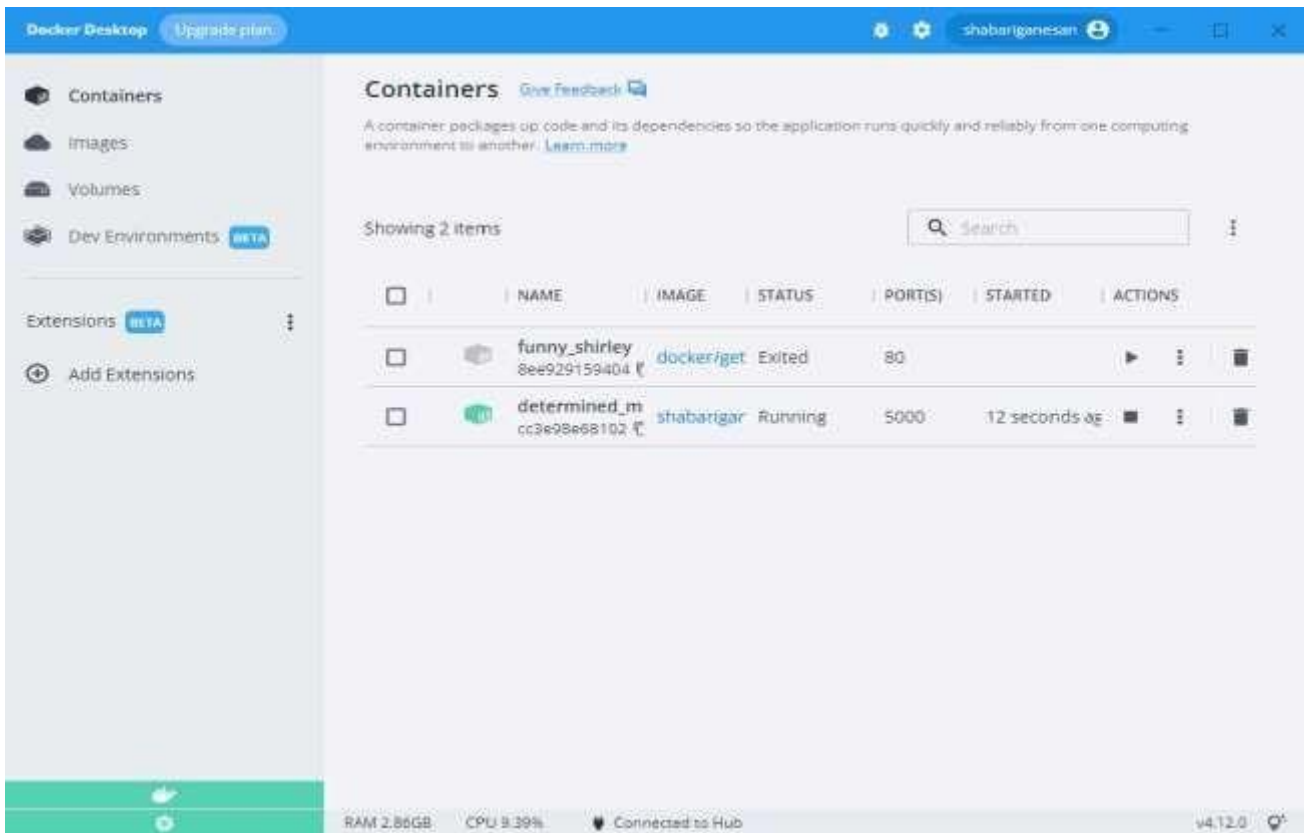
```
Command Prompt
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

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
1671565cc8df: Pull complete
3e94d13e55e7: Pull complete
fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: Pull complete
c71afc637d59: Pull complete
864a18b3c784: Pull complete
4334b2fe8293: Pull complete
8944578783f4: Pull complete
f885911288d0: Pull complete
086f369ca59f: Pull complete
e113bd27b88e: Pull complete
Digest: sha256:c61f28873bflc909786ce991b8b60cd976765077f344e34d50e6cce8cf8d95c3
Status: Downloaded newer image for shabariganesan/docker_with_flask_form:latest
docker.io/shabariganesan/docker_with_flask_form:latest

C:\Users\ADMIN>
```

run titin docker playground





Question-2:

Create a dockerfile for the job portal application and deploy it in a docker application.

Creating a dockerfile for the job portal application



runningindockerdesktop1

Question-3: Create an IBM container registry and deploy helloworldapp or jobportalapp

createa ibm container registry

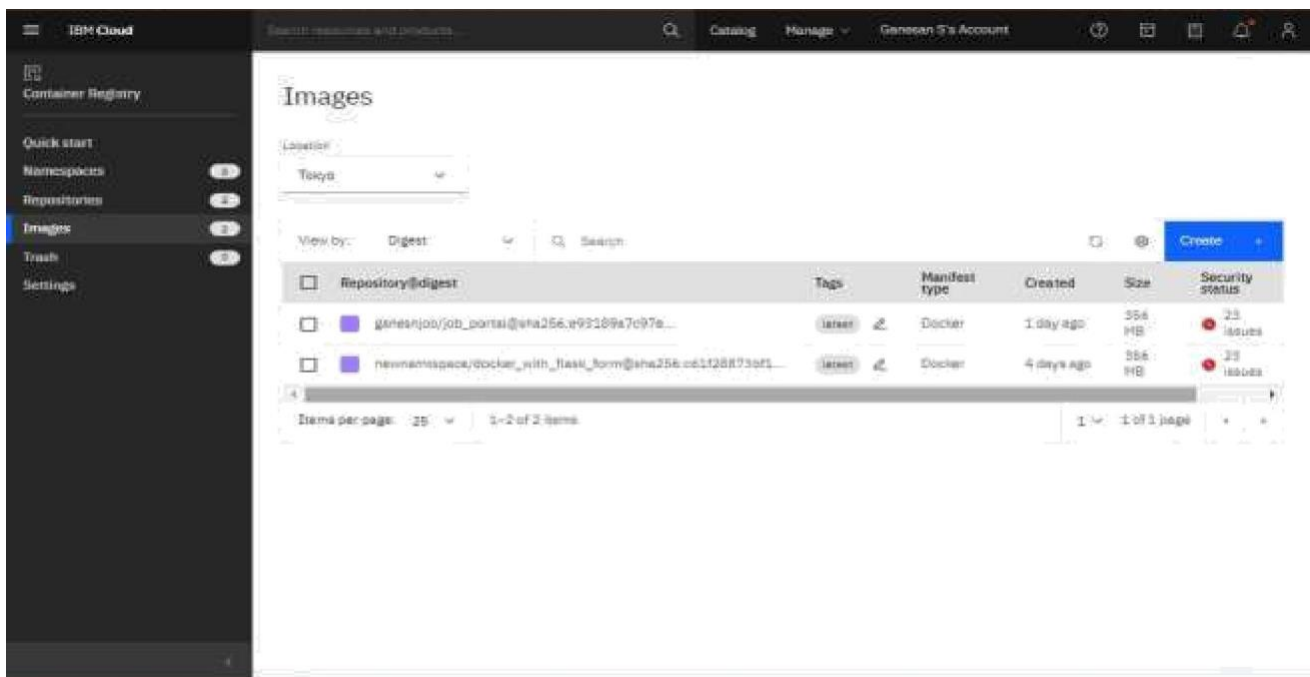


deployhelloworldorjobportal

```
C:\Windows\system32\cmd.exe
54acb5a6fa8b: Retrying in 1 second
8d51c618126f: Retrying in 1 second
9ff6e4d6744: Waiting
a90d1d47b541: Waiting
655ed1b74428: Waiting
Failed to lookup host: jp.lcr.io

C:\Users\gan1\Desktop\job_portal>docker push jp.lcr.io/ganeshjob/job_portal
Using default tag: latest
The push refers to repository [jp.lcr.io/ganeshjob/job_portal]
1fe3b1584025: layer already exists
80e94f05e186: Pushed
48c2a7a4c12b: layer already exists
9b72c7835466: layer already exists
bfcd5eb8136e: layer already exists
1f123186024c: layer already exists
3d6eb1152931: Pushed
180796cdf3b1: Pushed
54acb5a6fa8b: Retrying in 1 second
8d51c618126f: Pushed
9ff6e4d6744: Pushed
a90d1d47b541: Pushed
655ed1b74428: Pushing [-----] 89.88MB/134MB
^C
C:\Users\gan1\Desktop\job_portal>docker push jp.lcr.io/ganeshjob/job_portal
Using default tag: latest
The push refers to repository [jp.lcr.io/ganeshjob/job_portal]
1503b1584025: layer already exists
80e94f05e186: layer already exists
48c2a7a4c12b: layer already exists
9b72c7835466: layer already exists
bfcd5eb8136e: layer already exists
1f123186024c: layer already exists
3d6eb1152931: layer already exists
180796cdf3b1: layer already exists
54acb5a6fa8b: Pushed
8d51c618126f: layer already exists
9ff6e4d6744: layer already exists
a90d1d47b541: layer already exists
655ed1b74428: Pushed
latest: digest: sha256:e92189a7197eeb99086668a54e896cf61a48eda939998c8c7a2147a7961fc207 size: 3852

C:\Users\gan1\Desktop\job_portal>
C:\Users\gan1\Desktop\job_portal>
```



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

Creating a kubernetes cluster in ibm cloud



deploy helloworld image or job portal image and also expose the same app to run in note port

```
C:\Windows\System32\cmd.exe
10/16/2022 12:28 PM          3,721 windows shortcut.txt
08/25/2022 08:40 PM          2,897 YouTube.lnk
          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>kubect1 apply -f kubernetes/depoly.yaml
error: the path "kubernetes/depoly.yaml" does not exist

C:\Users\gani\Desktop>kubect1 apply -f depoly.yaml
error: the path "depoly.yaml" does not exist

C:\Users\gani\Desktop>kubect1 apply -f C:\Users\gani\Desktop\deploy.yaml
deployment.apps/flask-app created

C:\Users\gani\Desktop>
```



Search

Workloads > Pods

Deployment

Daemon Set

Service

Walingformoredalaadisplaycharl...Walingformoredata adisplaychart...

Running

Services

```
~/ing Flask app 'app'  
bug mode: on  
[WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.]  
* Running on all addresses (0.0.0.0)  
* Running on http://127.0.0.1:5000  
* Running on http://172.30.23.11:5000  
Press CTRL-C to quit  
* Starting with stat  
bugger is active!  
bugger PIN: 110-487-149
```



Workloads > Pods > flask app-79447b5c8c-408ww > Logs

```

C:\Windows\System32\cmd.exe
C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask-service
The 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 "[a-z]([-a-z0-9]*[a-z0-9])?")
C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask-service
The 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 "[a-z]([-a-z0-9]*[a-z0-9])?")
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C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask-service
error from server (AlreadyExists): services "flask-service" already exists
C:\Windows\system32>
C:\Windows\system32>kubectl -n kubernetec-dashboard get deploy
^C
C:\Windows\system32>kubectl -n kubernetec-dashboard get deploy
No resources found in kubernetec-dashboard namespace.
C:\Windows\system32>kubectl -n kubernetec-dashboard get deploy
No resources found in kubernetec-dashboard namespace.
C:\Windows\system32>kubectl proxy
Starting to serve on 127.0.0.1:8001
^C
C:\Windows\system32>kubectl -n kubernetec-dashboard get deploy
^C
C:\Windows\system32>kubectl -n kubernetec-dashboard get deploy
No resources found in kubernetec-dashboard namespace.
C:\Windows\system32>kubectl -n kubernetec-dashboard get pods
No resources found in kubernetec-dashboard namespace.
C:\Windows\system32>kubectl expose deployment flask-app --type=NodePort --name=flask-service
error from server (AlreadyExists): services "flask-service" already exists
C:\Windows\system32>kubectl get ing
NAME          CLASS    HOSTS      ADDRESS      PORTS      AGE
flask-app-ingress  cnone>   *          80           27h
C:\Windows\system32>kubectl get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP    PORT(S)      AGE

```