

ASSIGNMENT 4

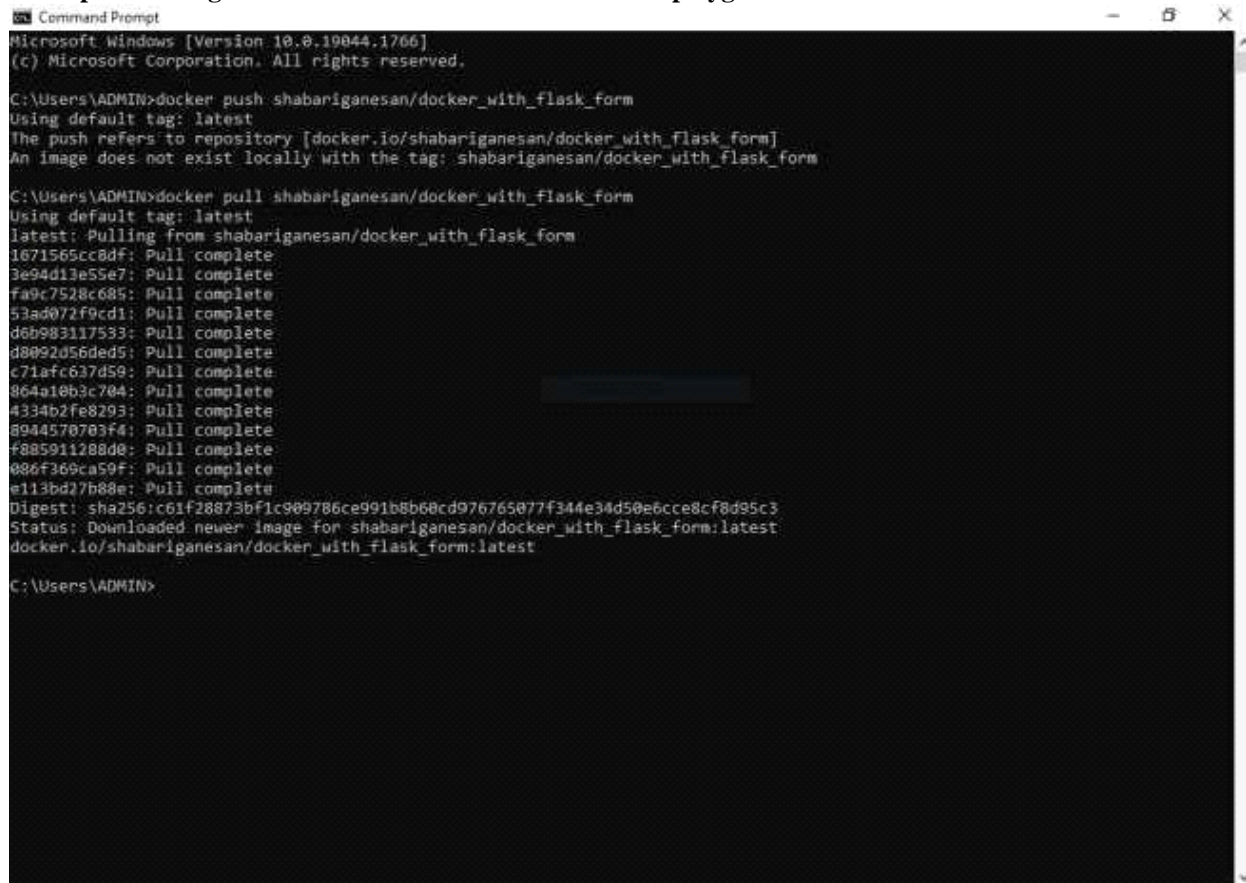
TEAM ID : P N T 2 0 2 2 T M I D 1 0 9 0 8

PROJECT NAME : NUTRITION ASSISTANT APPLICATION

NAME : RAGUL S

Question-1:

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

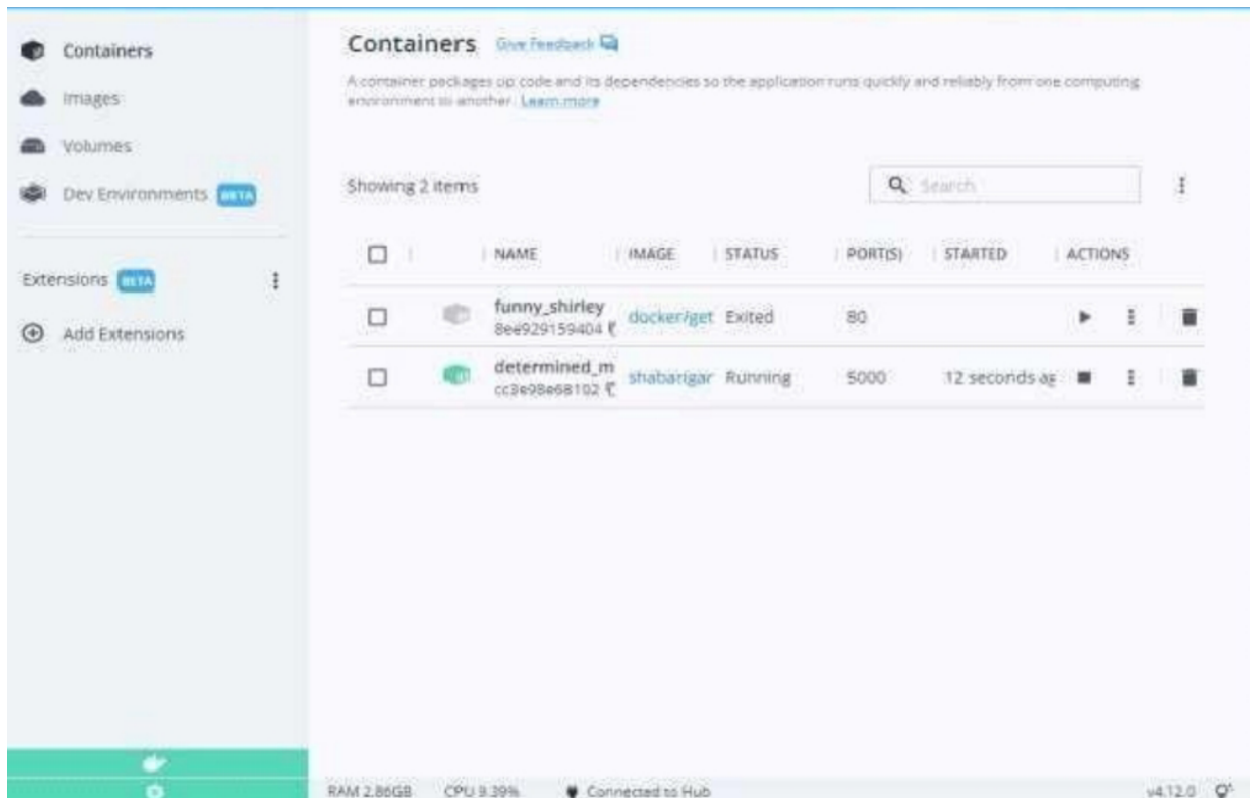
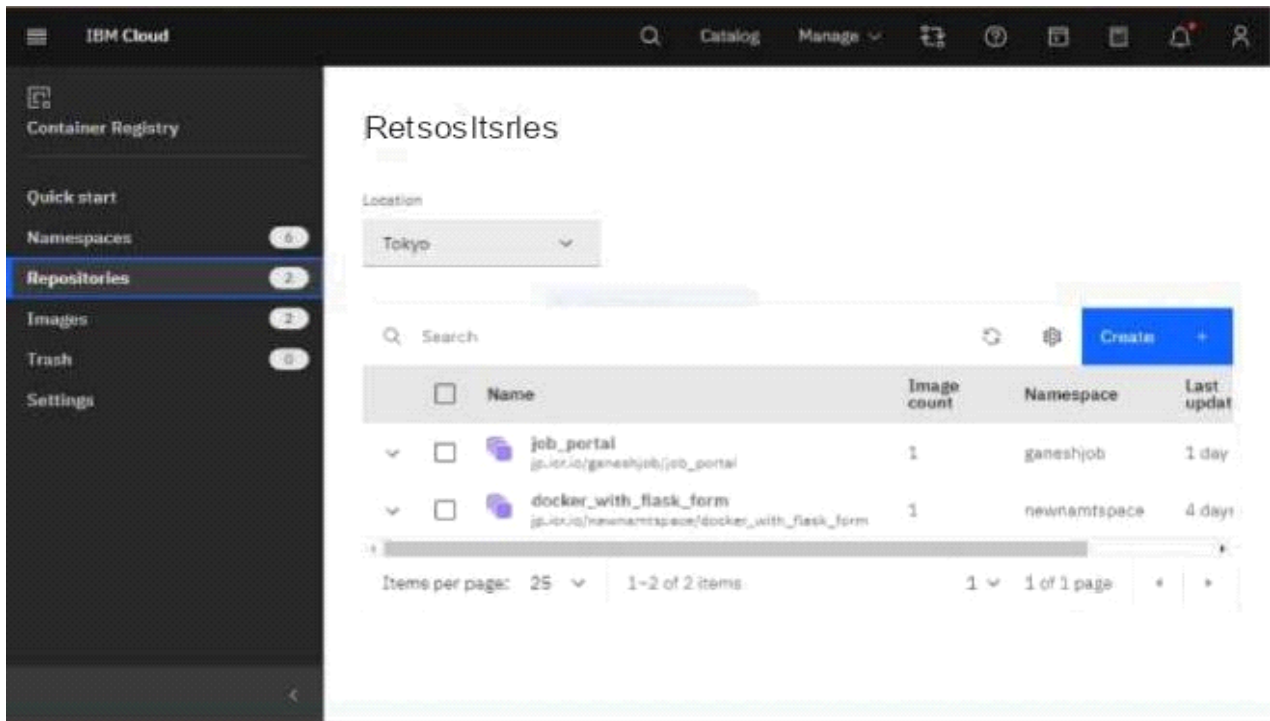
A screenshot of a Windows Command Prompt window titled 'Command Prompt'. The window shows the execution of Docker commands. First, the user runs 'docker push shabariganesan/docker_with_flask_form', which results in an error: 'An image does not exist locally with the tag: shabariganesan/docker_with_flask_form'. Then, the user runs 'docker pull shabariganesan/docker_with_flask_form', which successfully pulls the image from Docker Hub. The output shows the image name 'latest' and a list of layers being pulled, each marked as 'Pull complete'. Finally, the digest and status are displayed, indicating the image was downloaded successfully.

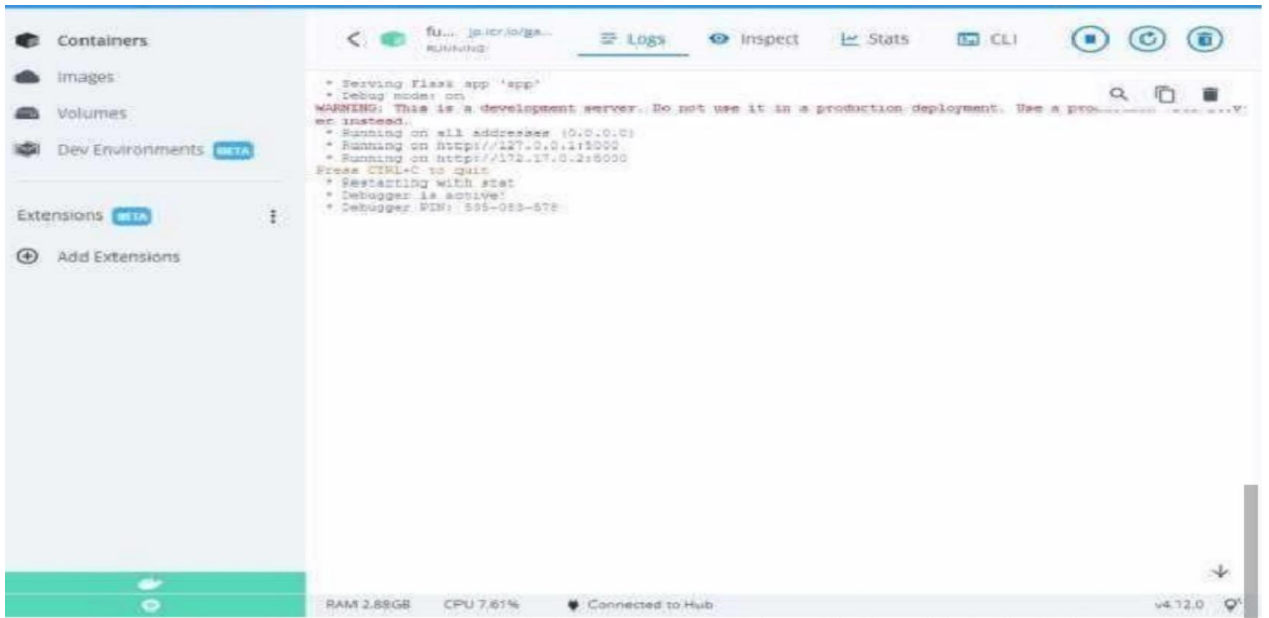
```
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

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

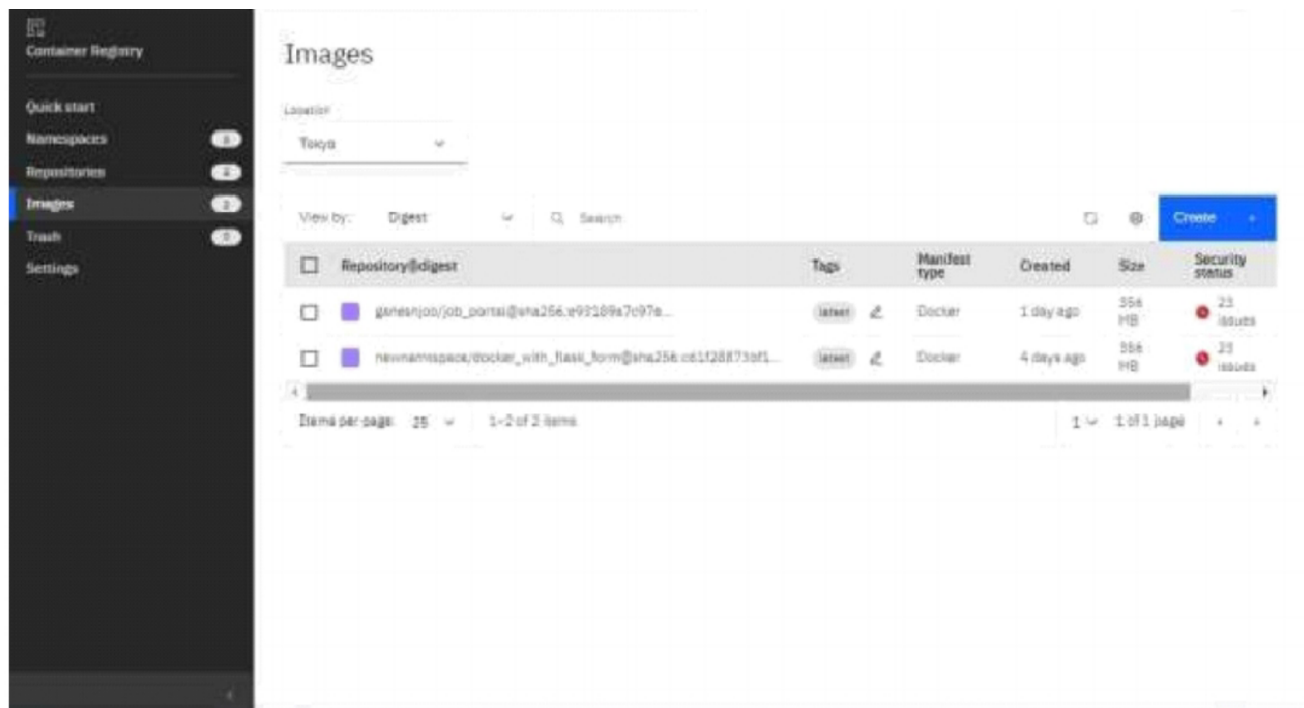
C:\Users\ADMIN>docker pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
1671565cc8df: Pull complete
3e94d13e55e7: Pull complete
fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: Pull complete
c71afc637d59: Pull complete
864a10b3c704: Pull complete
4334b2fe8293: Pull complete
8944570703f4: Pull complete
f885911288d0: Pull complete
086f369ca59f: 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

C:\Users\ADMIN>
```





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



```

C:\Windows\system32\cmd.exe
54cb5e6fa8b: Retrying in 1 second
8d51c618126f: Retrying in 1 second
9ff6e4d6744: Waiting
e80d1d47b5d1: Waiting
655ed1b7a428: Waiting
Failed to lookup host: jp.icr.io

C:\Users\ganil\Desktop\job_portal>docker push jp.icr.io/ganeshjob/job_portal
Using default tag: latest
The push refers to repository [jp.icr.io/ganeshjob/job_portal]
15eb158a025: Layer already exists
80e5f105e186: Pushed
48c2a7a4c12b: Layer already exists
8d51c618126f: Layer already exists
9ff6e4d6744: Layer already exists
e80d1d47b5d1: Layer already exists
655ed1b7a428: Layer already exists
15eb158a025: Pushed
80e5f105e186: Pushed
48c2a7a4c12b: Pushed
8d51c618126f: Pushed
9ff6e4d6744: Pushed
e80d1d47b5d1: Pushed
655ed1b7a428: Pushing [=====] | 89.8MB/124MB
%
C:\Users\ganil\Desktop\job_portal>docker push jp.icr.io/ganeshjob/job_portal
Using default tag: latest
The push refers to repository [jp.icr.io/ganeshjob/job_portal]
15eb158a025: Layer already exists
80e5f105e186: Layer already exists
48c2a7a4c12b: Layer already exists
8d51c618126f: Layer already exists
9ff6e4d6744: Layer already exists
e80d1d47b5d1: Layer already exists
655ed1b7a428: Layer already exists
15eb158a025: Pushed
80e5f105e186: Pushed
48c2a7a4c12b: Pushed
8d51c618126f: Pushed
9ff6e4d6744: Pushed
e80d1d47b5d1: Pushed
655ed1b7a428: Pushed
latest: digest: sha256:e92189a7f97eeb93d06668d54e896cf61aadede039998c8c7a2147a79d1fc207 size: 3852
C:\Users\ganil\Desktop\job_portal>
C:\Users\ganil\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

The screenshot shows the 'mycluster-free' dashboard. The 'Worker nodes' tab is selected, displaying a table with one node. The node is named '00000069', has a status of 'Normal', and is part of the 'default' worker pool. It is located in the 'Mumbai' zone. The private IP is '10.144.214.76' and the public IP is '159.122.175.138'. The version is '1.23.32_1648'.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000069	Normal	default	Mumbai	10.144.214.76	159.122.175.138	1.23.32_1648


```

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) 884,677,196 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>

```

```

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])?")

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
Error from server (AlreadyExists): services "flask-service" already exists

C:\Windows\system32>
C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
^C
C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl proxy
Starting to serve on 127.0.0.1:8081
^C
C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
^C
C:\Windows\system32>kubectl -n kubernetes-dashboard get deploy
No resources found in kubernetes-dashboard namespace.

C:\Windows\system32>kubectl -n kubernetes-dashboard get pods
No resources found in kubernetes-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  <none>  *          *            80         27m

C:\Windows\system32>kubectl get svc
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE

```