

# ASSIGNMENT 4

TEAM ID : PNT2022TMID50578

PROJECT NAME : CUSTOMER CARE REGISTRY

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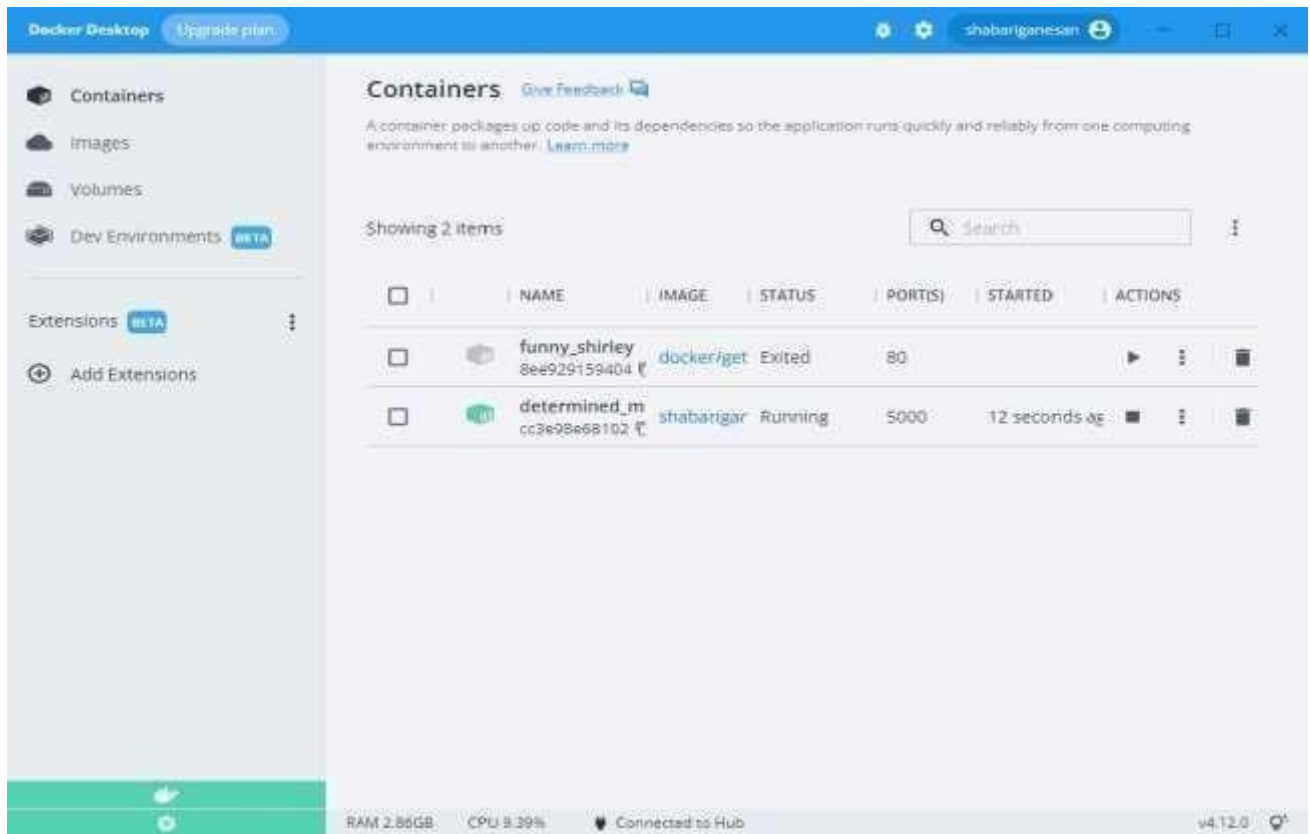
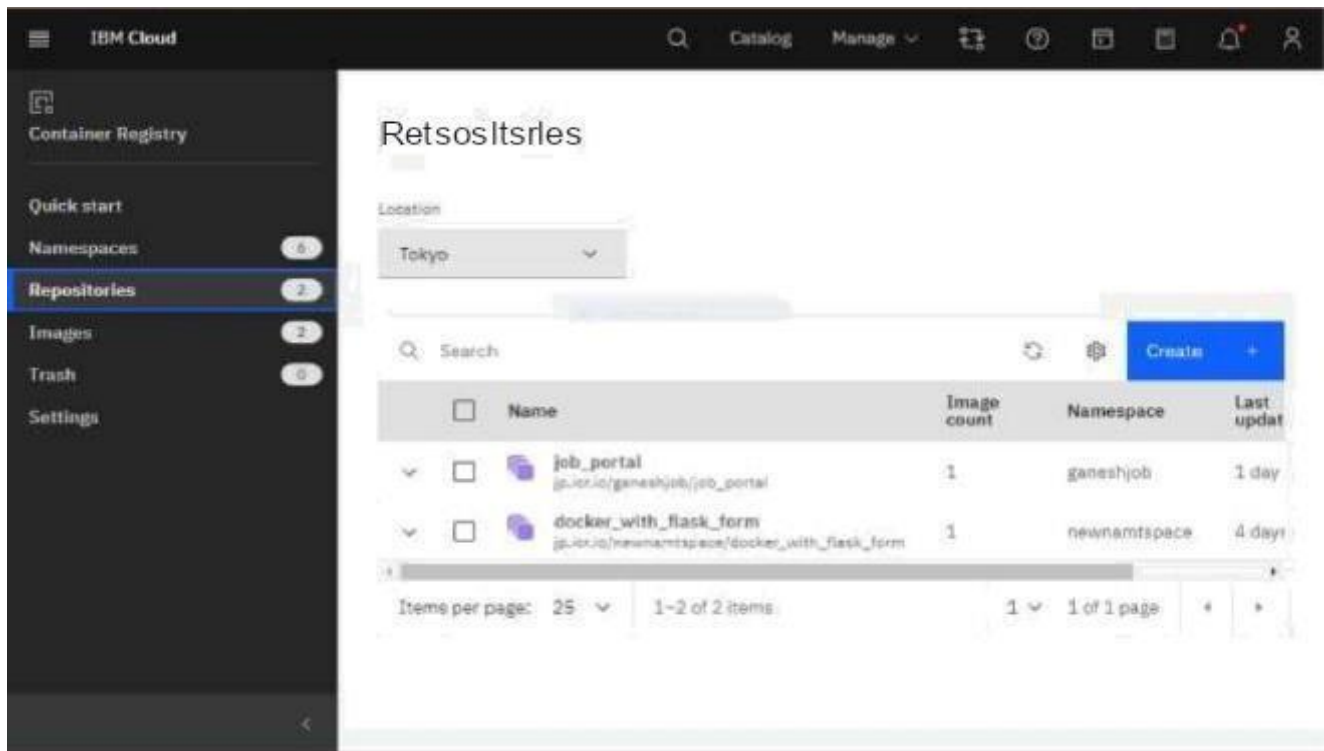
Question-1: pull an image from docker hub and run it in docker playground

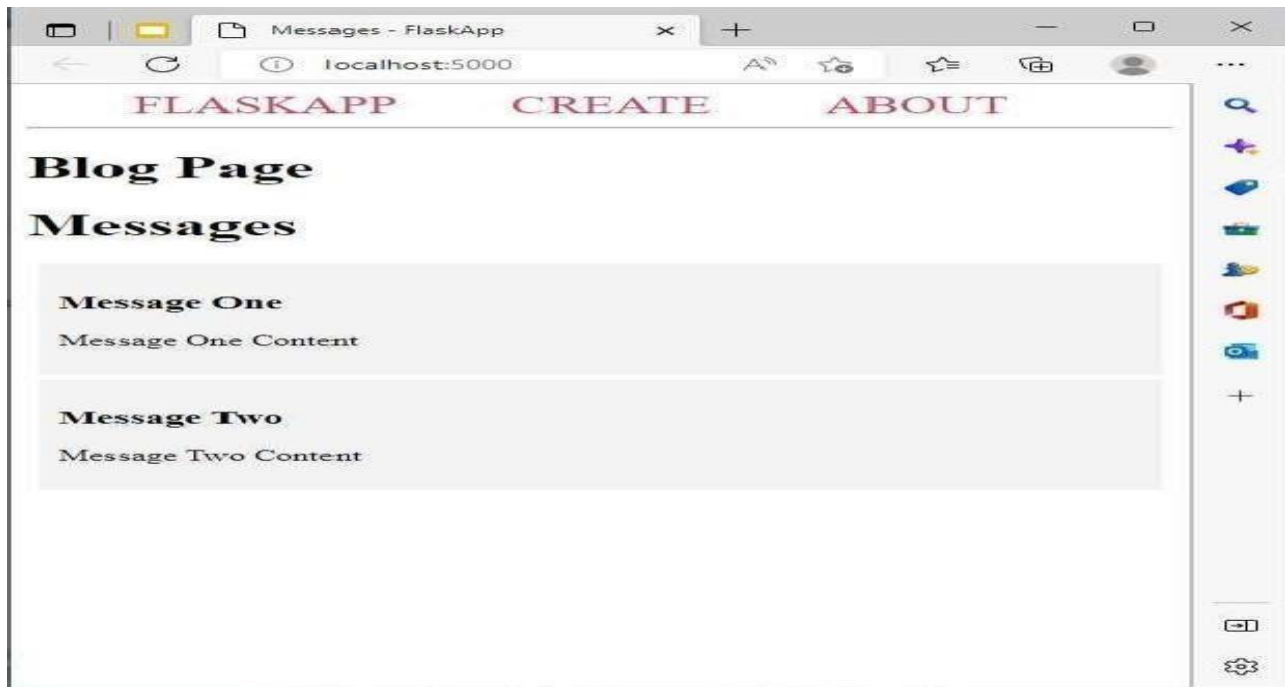
```
Command Prompt
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

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
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>
```

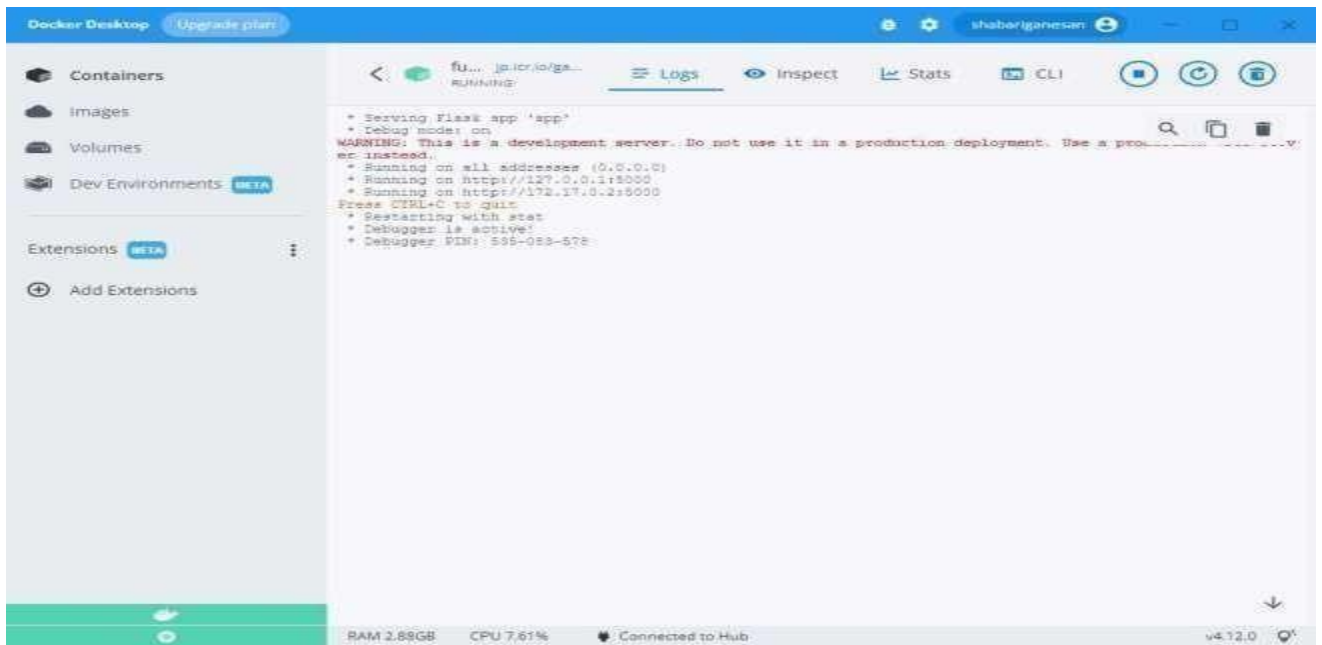




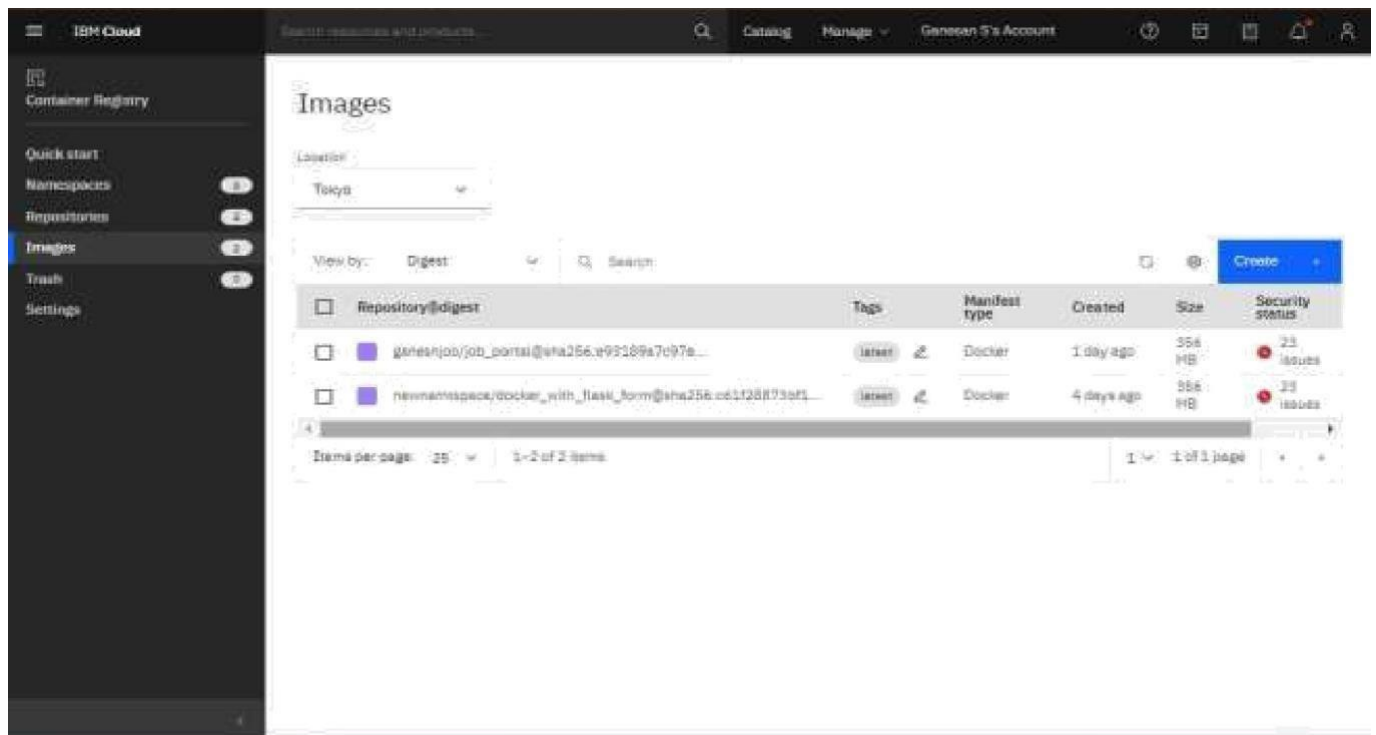
```
C:\Windows\system32\cmd.exe
```

```
C:\Users\ganil\Desktop>job_portal.cd ..  
C:\Users\ganil\Desktop>.cd job_portal  
  
C:\Users\ganil\Desktop\job_portal>docker build -t job_portal  
"docker build" requires exactly 1 argument.  
See "docker build --help".  
  
usage: docker build [OPTIONS] PATH | URL | -  
  
Build an Image from a Dockerfile  
  
C:\Users\ganil\Desktop\job_portal>.dir  
Volume in drive C has no label.  
Volume Serial Number is 86A3-10B9  
  
Directory of C:\Users\ganil\Desktop\job_portal  
  
10/25/2022   04:58 PM    <DIR>          .  
10/25/2022   04:53 PM    <DIR>          ..  
10/25/2022   04:11 PM                320 apply  
10/22/2022   10:48 PM            148 Dockerfile  
10/22/2022   10:48 PM               $ requirements.txt  
10/25/2022   04:53 PM    <DIR>          static  
10/25/2022   04:53 PM    <DIR>          templates  
10/25/2022   04:53 PM    <DIR>          _pycache_  
           3 File(s)              474 Bytes  
           5 Dir(s)      77,847,854,876 bytes free  
  
C:\Users\ganil\Desktop\job_portal>.docker build -t job_portal:  
Invalid argument "job_portal:" for "-t, --tag" flag: invalid reference format  
See "docker build --help".  
  
C:\Users\ganil\Desktop\job_portal>.docker build -t job_portal,  
[+] Building 667.6s (11/11) FINISHED  
=> internal load build definition from Dockerfile  
=> [internal-load] Dockerfile: 17MB  
=> [internal-load] Dockerignore  
=> transfering context to Docker daemon  
=> internal load metadata for docker.io/library/python:3.8.1  
=> python:3.8.1-python:3.8.1 takes the builder's default io  
=> [python:3.8.1-python:3.8.1] FROM docker.io/docker-library/python@sha256:fefc24f4e4d4c9a622da9c41dbbc9e0a09a038afcc4e4009adcf81431  
=> [python:3.8.1-python:3.8.1] WORKDIR /app  
=> [python:3.8.1-python:3.8.1] COPY ./requirements.txt /app  
=> [python:3.8.1-python:3.8.1] RUN pip install --no-cache-dir -r requirements.txt
```





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



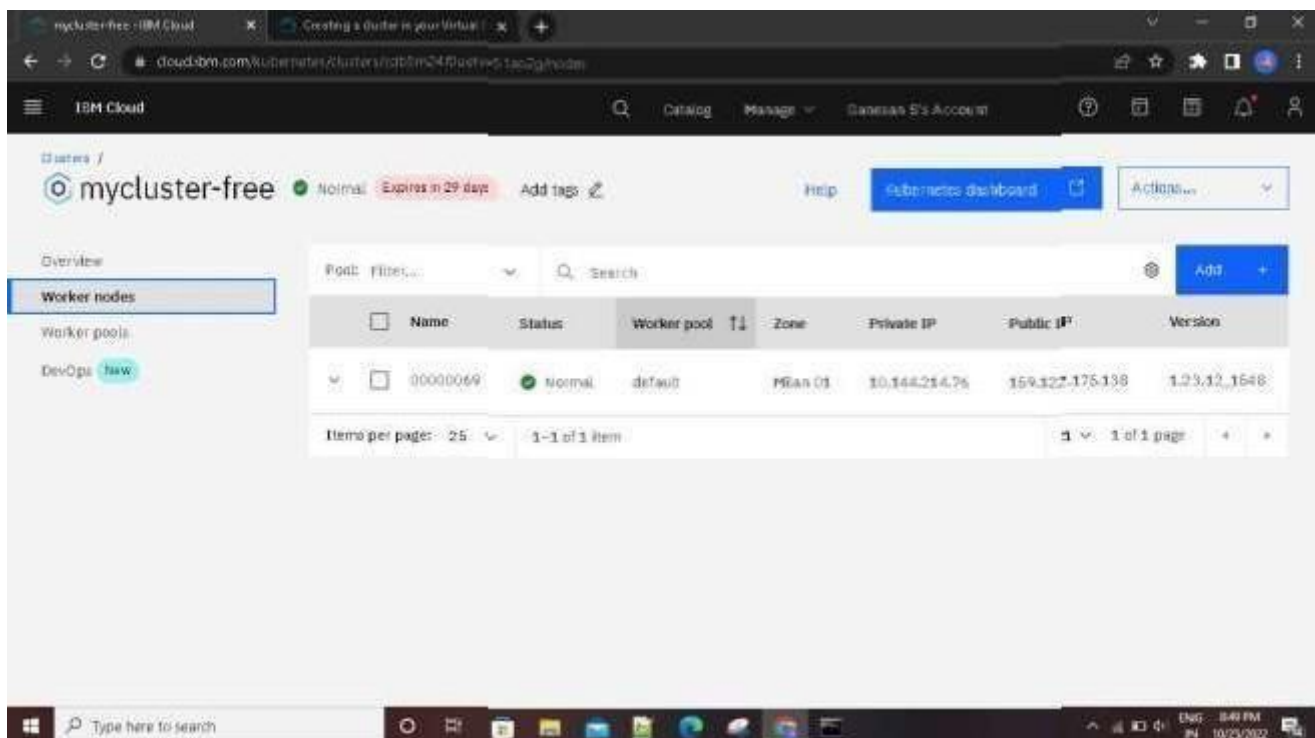
```
C:\Windows\system32\cmd.exe
54acb5a6fab0: Retrying in 1 second
8d51c618126f: Retrying in 1 second
0ff6e4d6744: Waiting
a90d1d47b5a1: Waiting
655ed1b7a428: Waiting
Failed to lookup host: jp.icr.io

C:\Users\gan\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]
13e3b1584025: layer already exists
0be54fb5e186: Pushed
48c2a744c12b: layer already exists
8b72c7835466: layer already exists
0fc1deb0136e: layer already exists
1f123186824c: layer already exists
3d6eb1152931: Pushed
180796cd73b1: Pushed
54acb5a6fab0: Retrying in 1 second
8d51c618126f: Pushed
0ff6e4d6744: Pushed
a90d1d47b5a1: Pushed
655ed1b7a428: Pushing [=====] 89.88MB/124MB
rc

C:\Users\gan\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]
13e3b1584025: layer already exists
0be54fb5e186: layer already exists
48c2a744c12b: layer already exists
8b72c7835466: layer already exists
0fc1deb0136e: layer already exists
1f123186824c: layer already exists
3d6eb1152931: layer already exists
180796cd73b1: layer already exists
54acb5a6fab0: Pushed
8d51c618126f: layer already exists
0ff6e4d6744: layer already exists
a90d1d47b5a1: layer already exists
655ed1b7a428: Pushed
latest: digest: sha256:e93189a7c07eeb92d86668a54e895cf61a46eda39998c8c7a2147a7961fc207 size: 3952

C:\Users\gan\Desktop\job_portal>
C:\Users\gan\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





```

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>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 127.0.0.1:8001
^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  cncn    *          *            80         27s

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

```