

ASSIGNMENT 4

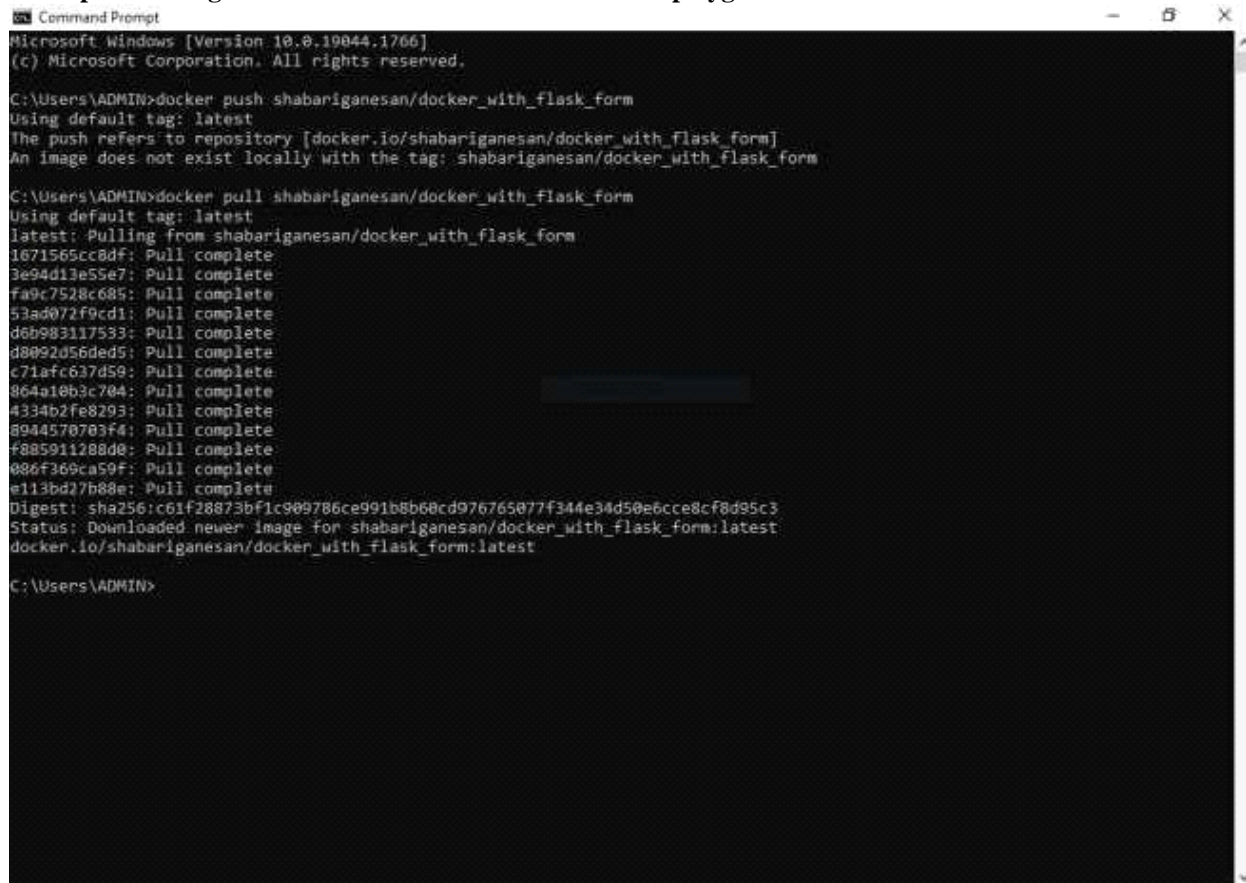
TEAM ID : PNT2022TMID50577

PROJECT NAME : NUTRITION ASSISTANT APPLICATION

NAME : A SANTHANAMARIAMMAL

Question-1:

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

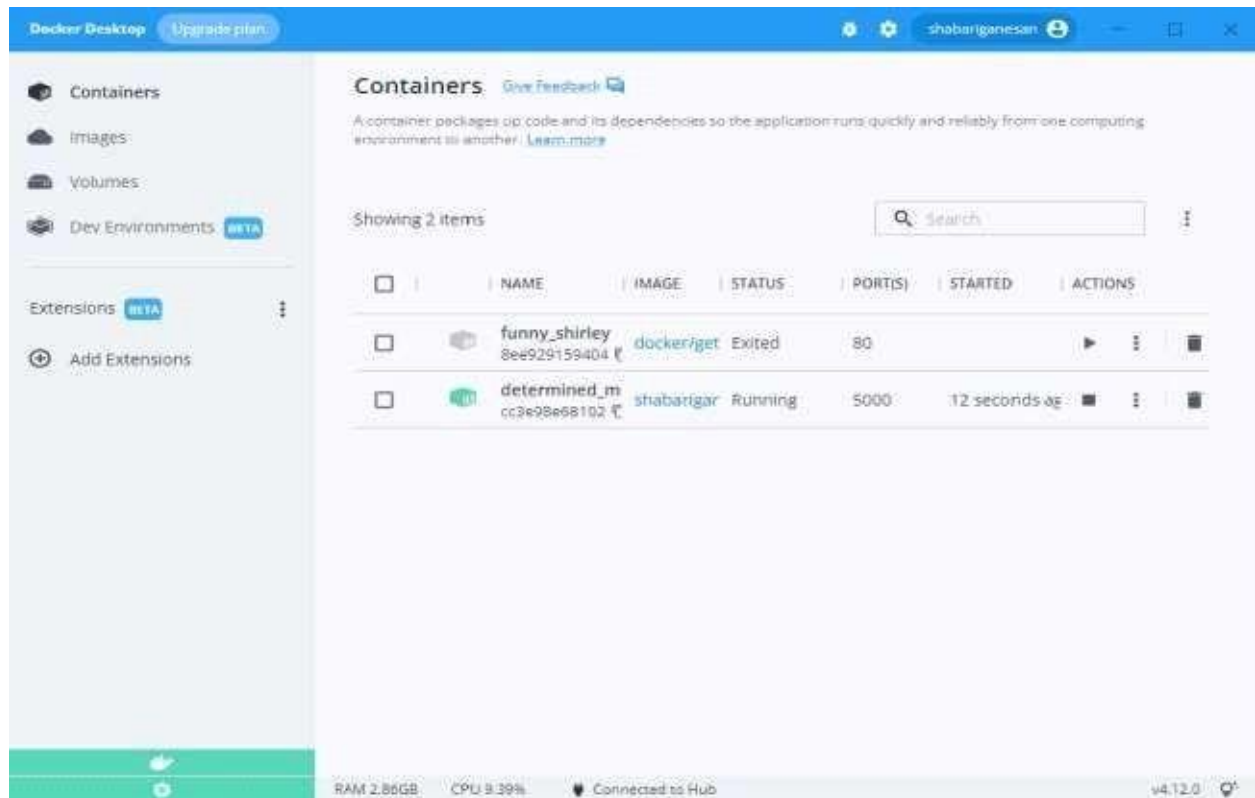
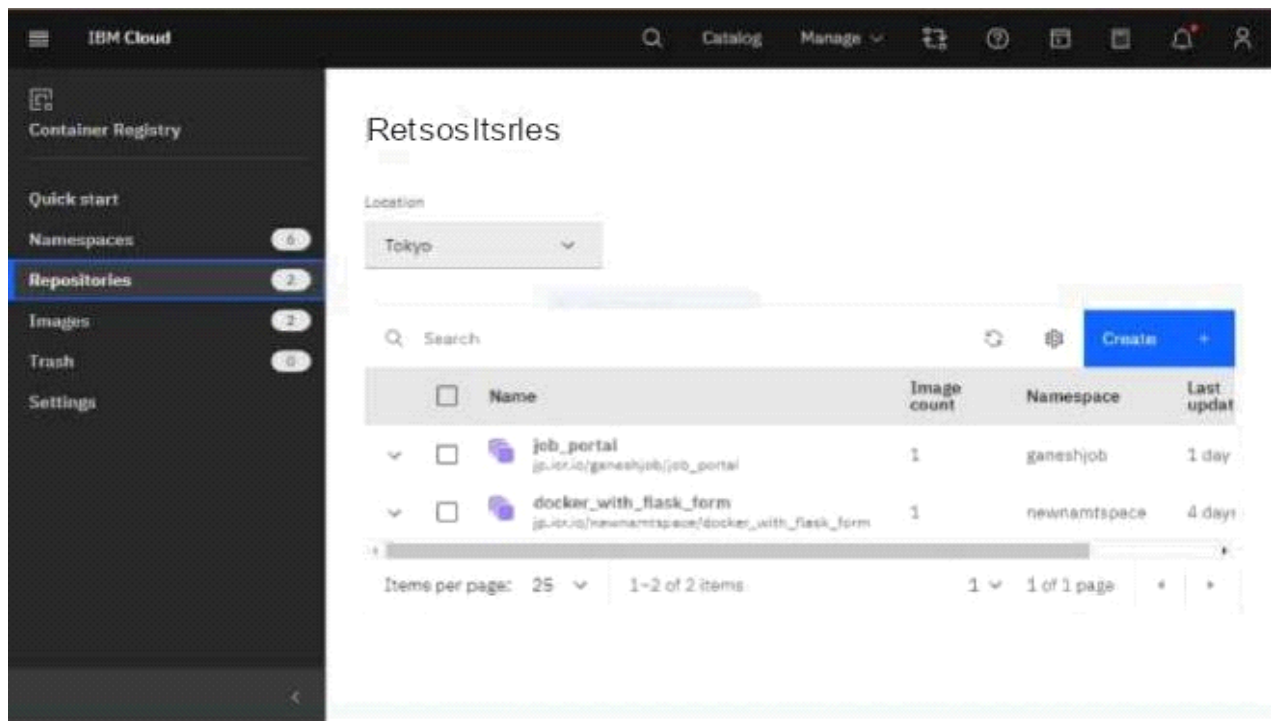
A screenshot of a Windows Command Prompt window titled 'Command Prompt'. The window shows the execution of Docker commands. First, the user runs 'docker push shabariganesan/docker_with_flask_form', which results in an error: 'The push refers to repository [docker.io/shabariganesan/docker_with_flask_form]' and '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 being pulled from 'shabariganesan/docker_with_flask_form' and lists various layers being pulled, each marked as 'Pull complete'. The final output shows the image digest and status: 'Digest: sha256:c61f28873bf1c909786ce991b8b60cd976765077f344e34d50e6cce8cf8d95c3' and 'Status: Downloaded newer image for shabariganesan/docker_with_flask_form:latest'. The prompt ends with 'C:\Users\ADMIN>'.

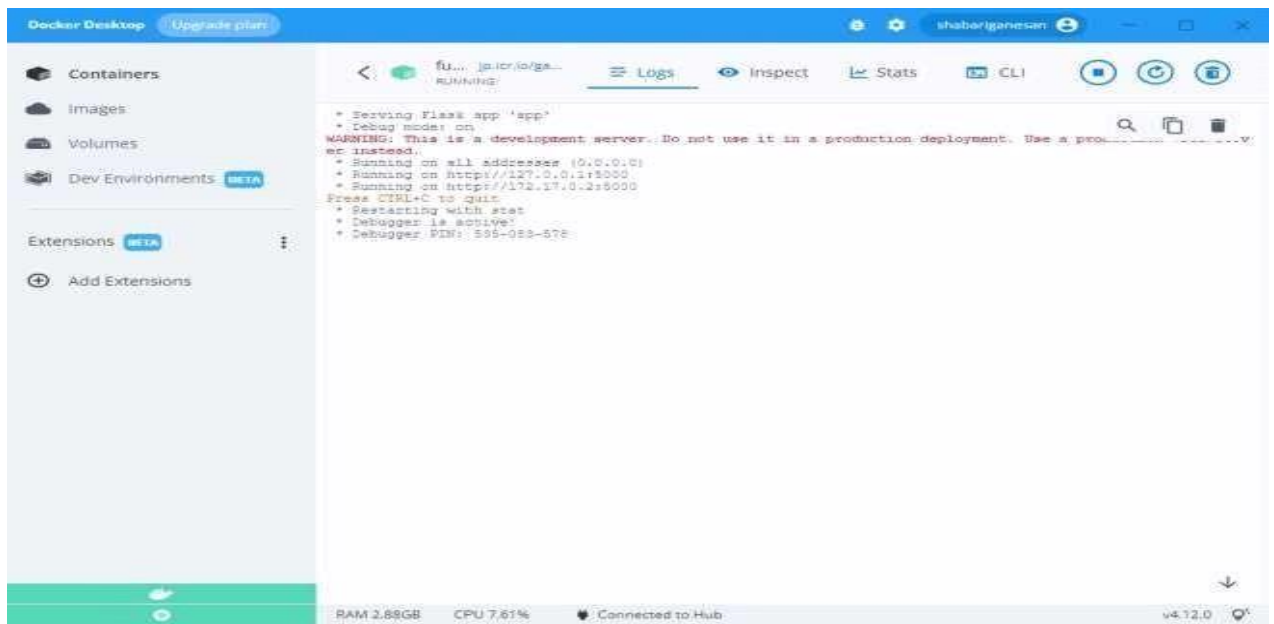
```
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

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

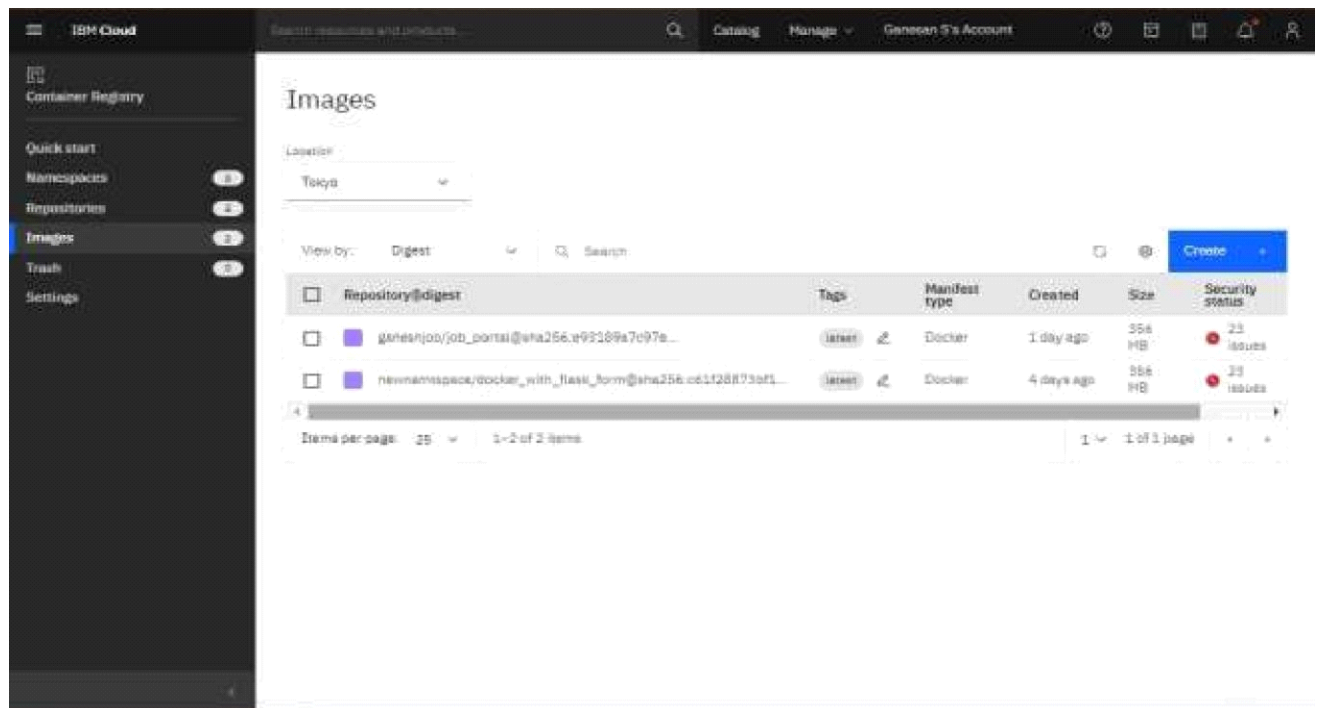
C:\Users\ADMIN>docker pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
1671565cc8df: Pull complete
3e94d13e5e7: Pull complete
fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: 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>
```





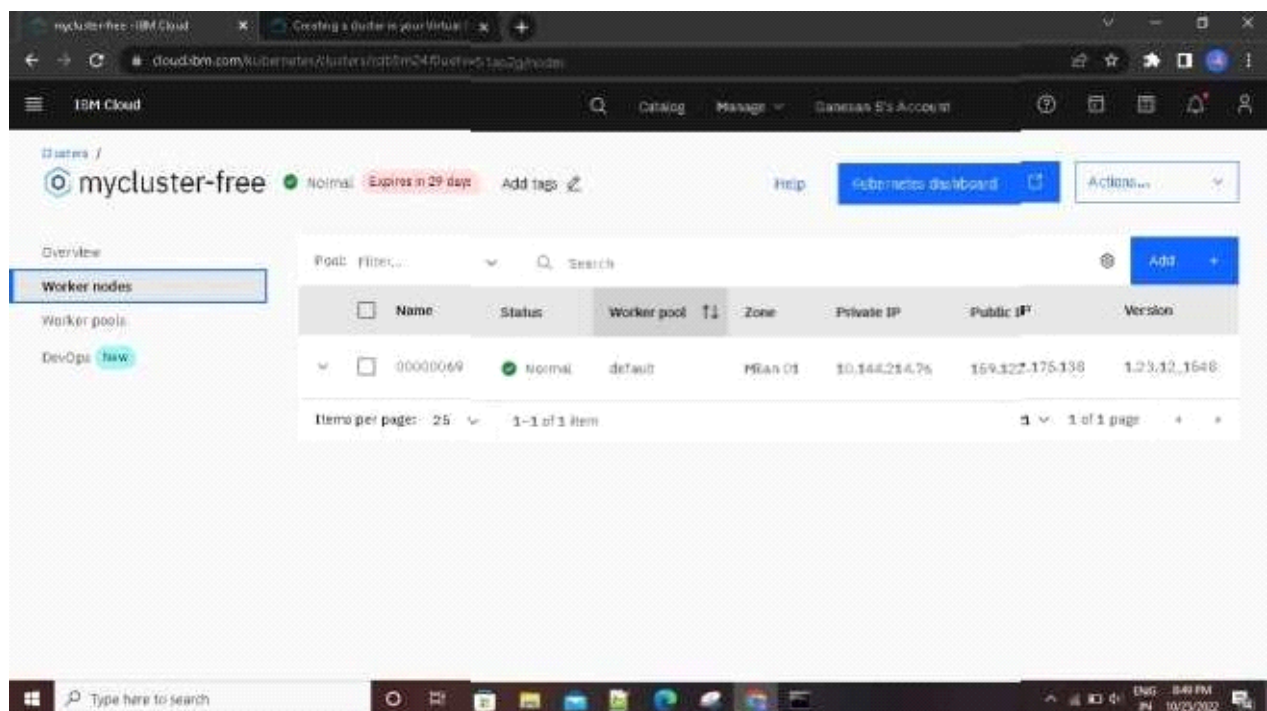
Question-3: Create a Ibm container registry and deploy helloworld app or jobportalapp



```
C:\Windows\system32\cmd.exe
54cb5e6fa8b: Retrying in 1 second
8d51c618126f: Retrying in 1 second
9ff6e4d6744: Waiting
a89d1d47b5d1: Waiting
055ed1b7e428: 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]
1503b158e025: Layer already exists
80e84f05e186: Layer already exists
48c2a7e4c12b: Layer already exists
9b72c7835466: Layer already exists
bfc1dbb0139e: Layer already exists
1f123106024c: Layer already exists
3d5eb1152931: Pushed
190796cdf3b1: Pushed
54cb5e6fa8b: Retrying in 1 second
8d51c618126f: Pushed
9ff6e4d6744: Pushed
a89d1d47b5d1: Pushed
055ed1b7e428: Pushing [=====] | 89.88MB/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]
1503b158e025: Layer already exists
80e84f05e186: Layer already exists
48c2a7e4c12b: Layer already exists
9b72c7835466: Layer already exists
bfc1dbb0139e: Layer already exists
1f123106024c: Layer already exists
3d5eb1152931: Layer already exists
190796cdf3b1: Layer already exists
54cb5e6fa8b: Pushed
8d51c618126f: Layer already exists
9ff6e4d6744: Layer already exists
a89d1d47b5d1: Layer already exists
055ed1b7e428: Pushed
latest: digest: sha256:e92189a7c97eeb93d06668a54e896cf61a5ede039998c8c7a2147a7961fc207 size: 3952
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




```

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

```