Assignment-4

Assignment Date	9 NOVEMBER 2022
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Question:

1. **Pull an Image from the docker hub and run it in the docker playground.**

   Pull an image from the docker hub.

Repositories   Starred   Contributed

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dharshinipk/getting-started
By dharshinipk · Updated a day ago

image

1   0
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dharshinipk/flask-with-docker
By dharshinipk · Updated a day ago

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Containers   Give Feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

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		NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
☐		funny_shirley 8ee929159404	docker/get	Exited	80		▶ ⋮ 🗑
☐		determined_m cc3e98e68102	shabarigar	Running	5000	12 seconds ag	■ ⋮ 🗑

RAM 2.86GB   CPU 9.39%   Connected to Hub   v4.12.0
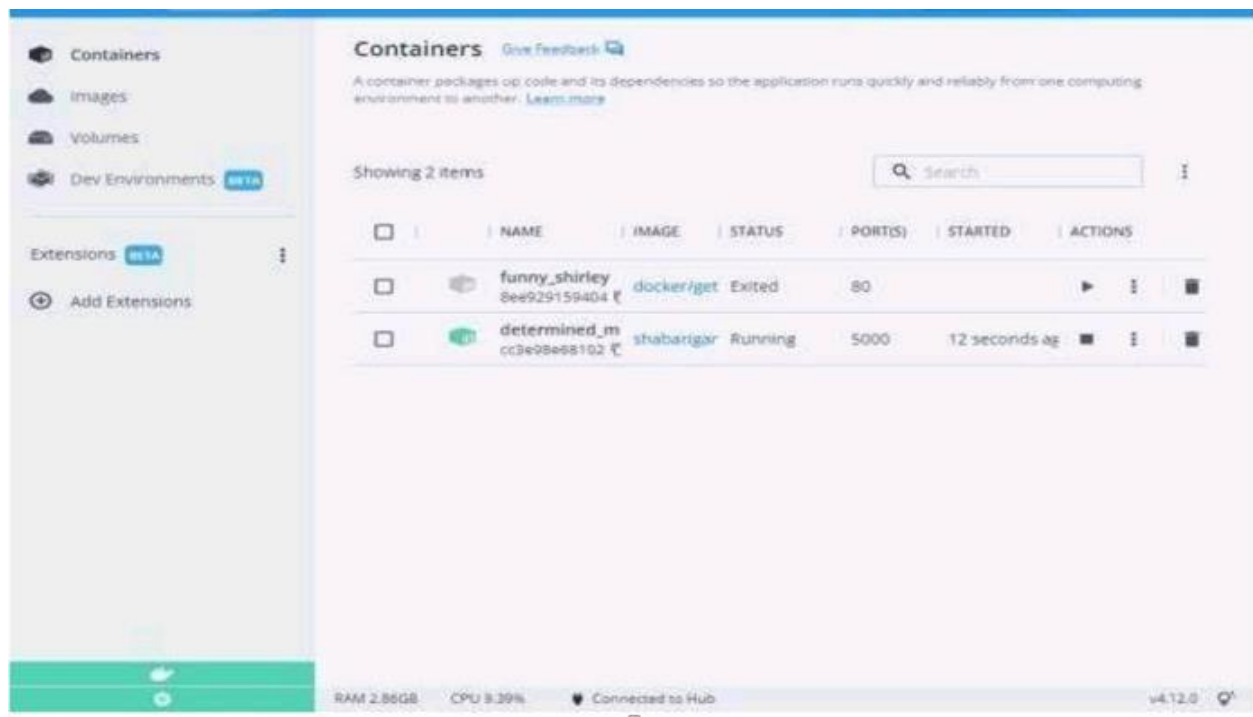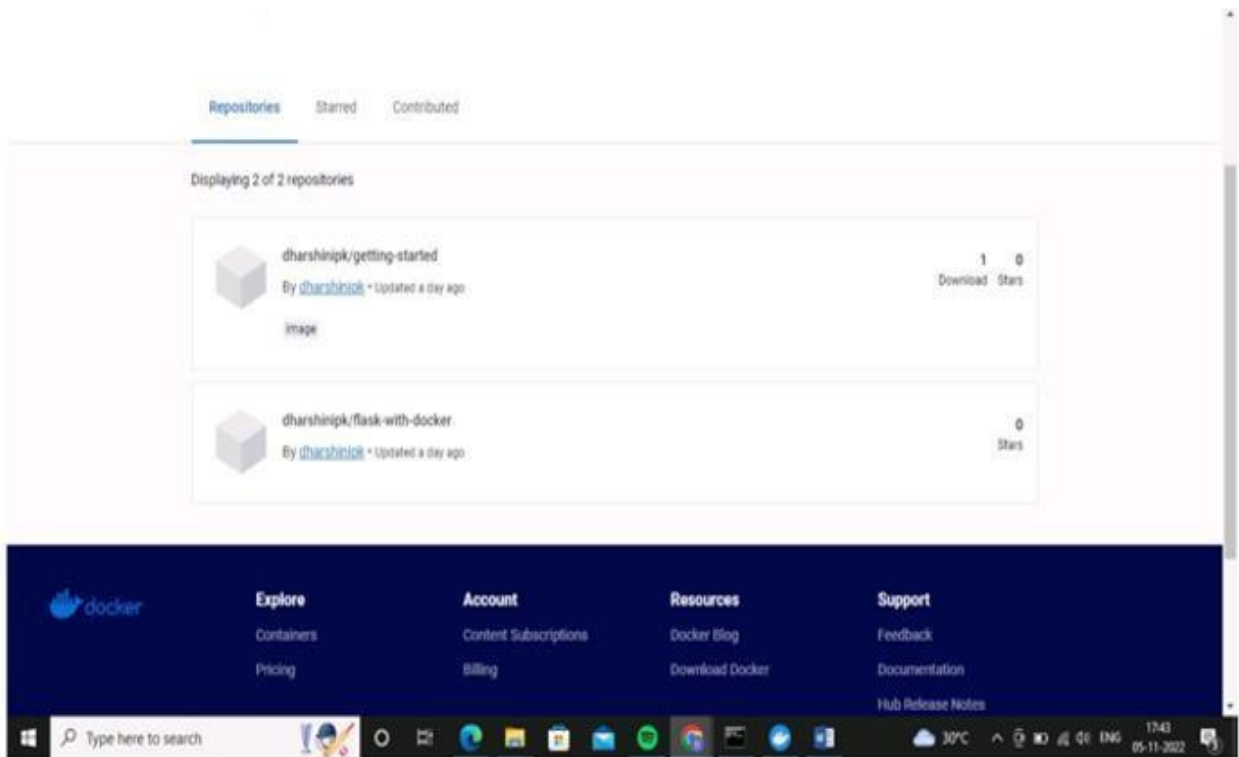
2. Create a docker file for the job portal application and deploy it in Docker desktop application.
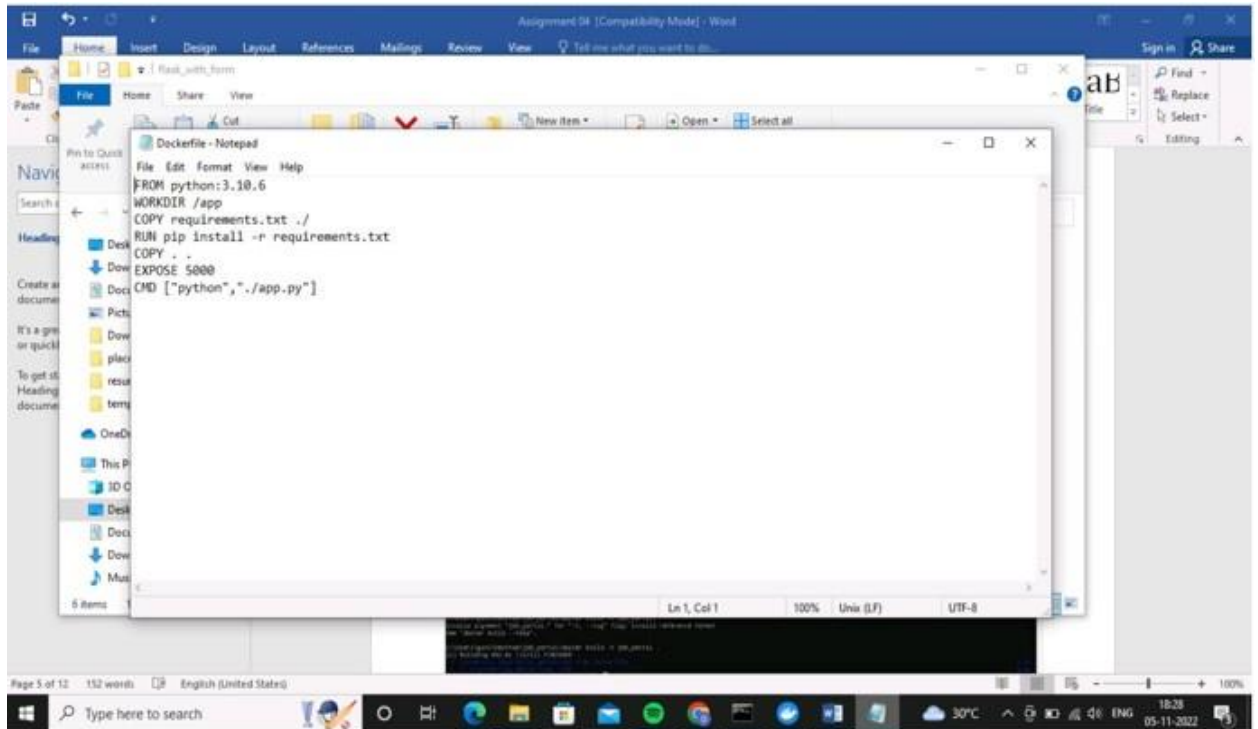
Deploy in docker application

Running in docker desktop
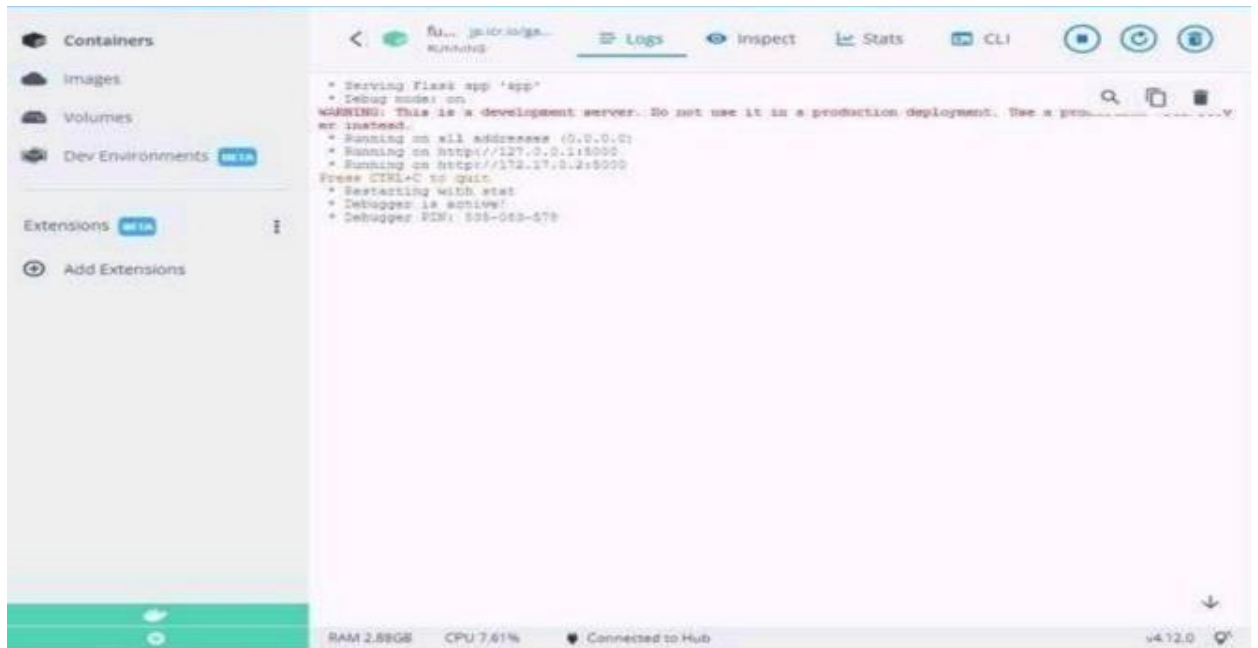
3.Create a IBM container registry and deploy helloworld app or jobportalapp.

Deploy helloworld or jobportal

4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.
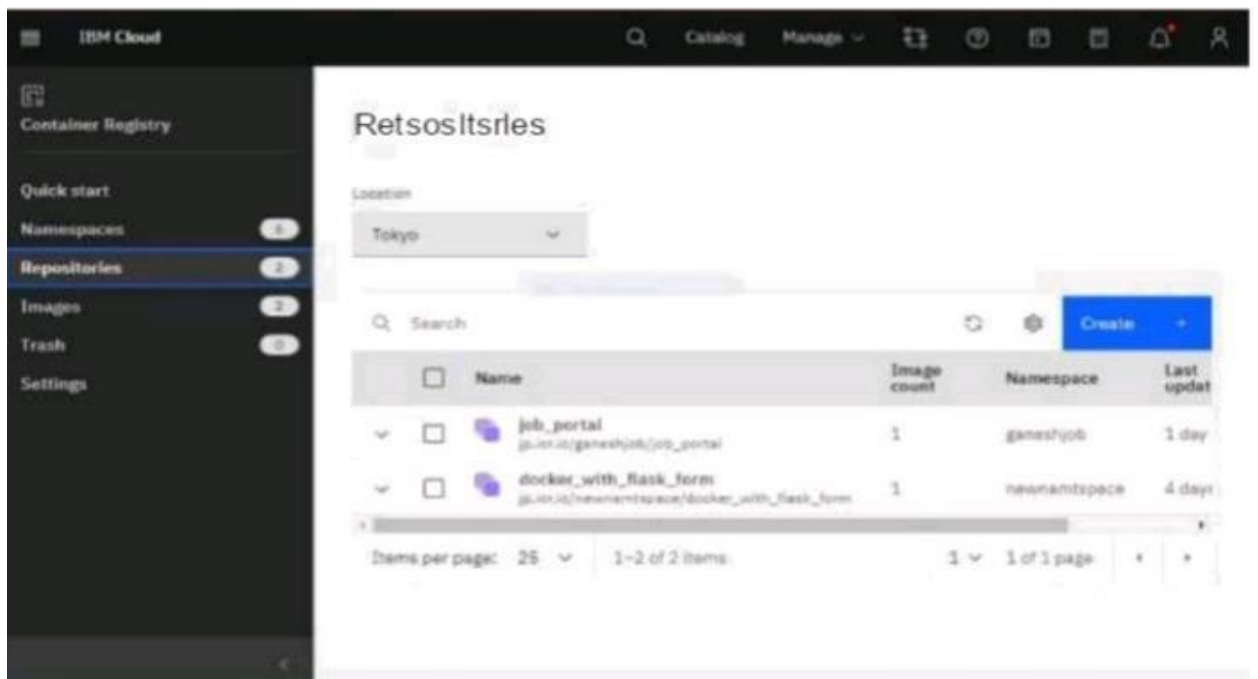
Creating a kubernetes cluster in ibm cloud
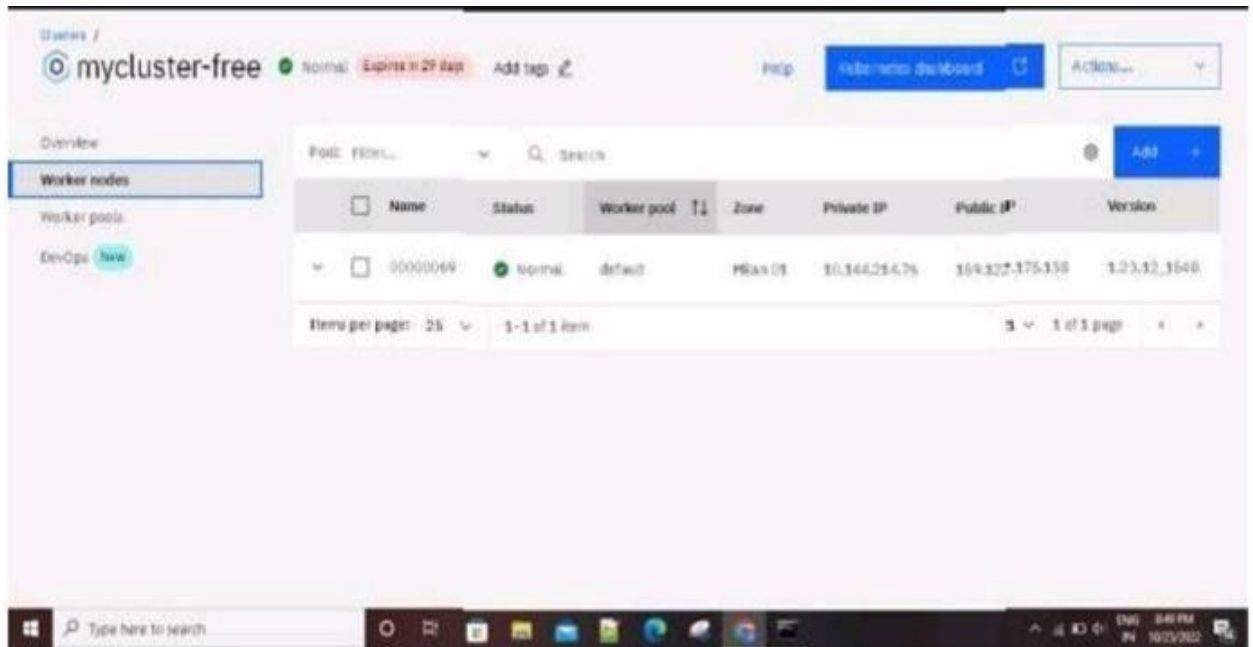
Expose the same app to run in noteport

```
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   <none>   *                   80      27m

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