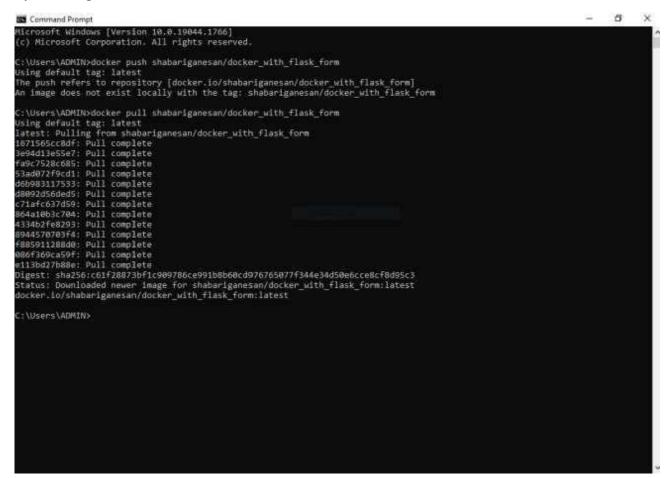
# Assignment -4 Docker and kubernetes

Student Name	Natesh Krishnan V
Student Roll Number	92172019104102
Maximum Marks	2 Marks

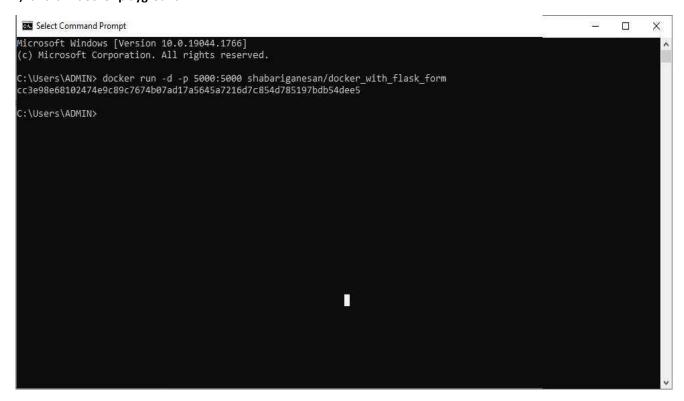
## Question-1:

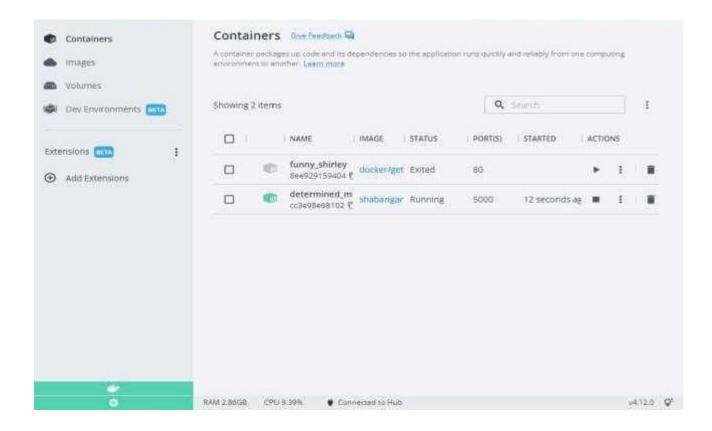
pull an image from docker hub and run it in docker playground.

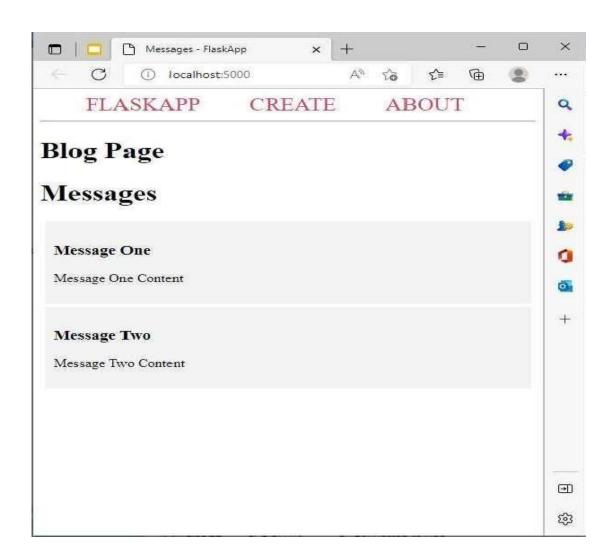
# 1) pull an image form docker hub



# 2) runt it in docker playground







#### Question-2:

Create a docker file for the jobportal application and deploy it in docker application.

1) Creating a docker file for the jobportal application

```
To search

| Comparison | Compa
```

# 2) deploy in in dokcer application

```
C. Wisers Ngani Meshtopide portalico...

Salid an lange from a Conterfile

C. Wisers Ngani Meshtopide portalico...

Salid an lange from a Conterfile

C. Wisers Ngani Meshtopide portalico...

Wisers In attac Chair mi sheri...

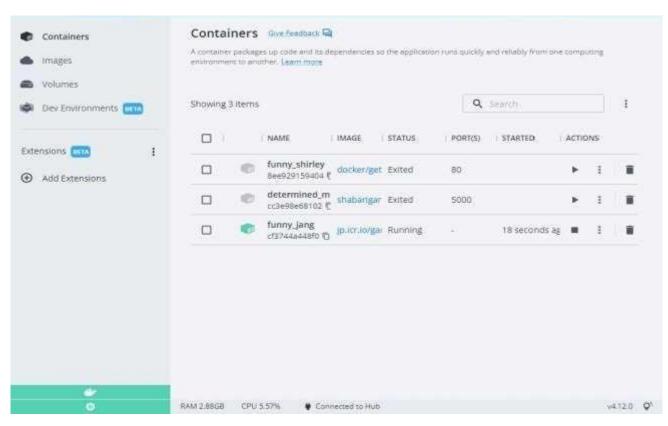
Wolume Sarid Meshtopide portalico...

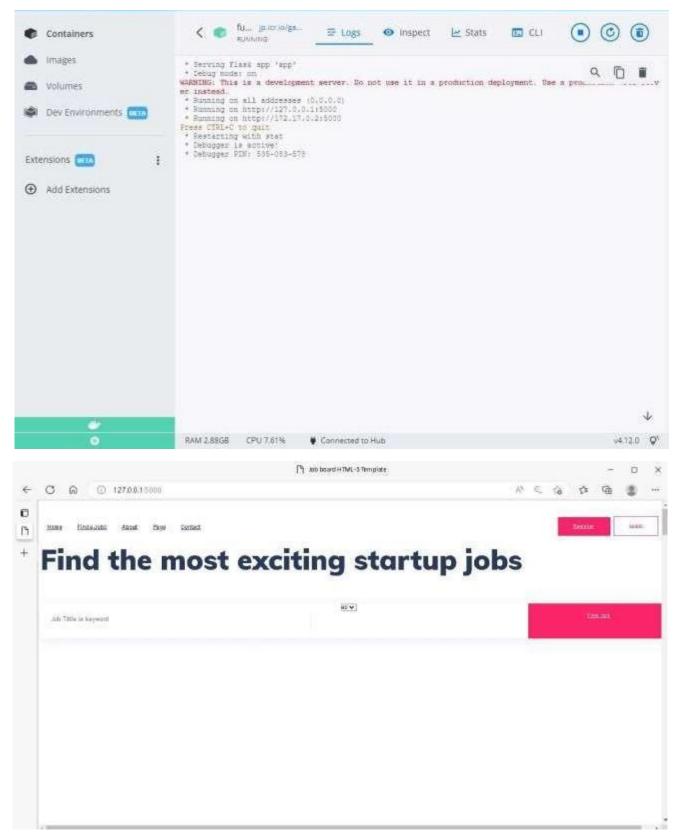
Olemotory of C. Wisers Ngani Meshtopide portal...

10/25/2002 Gaila Pre CON...

10/25/2002
```







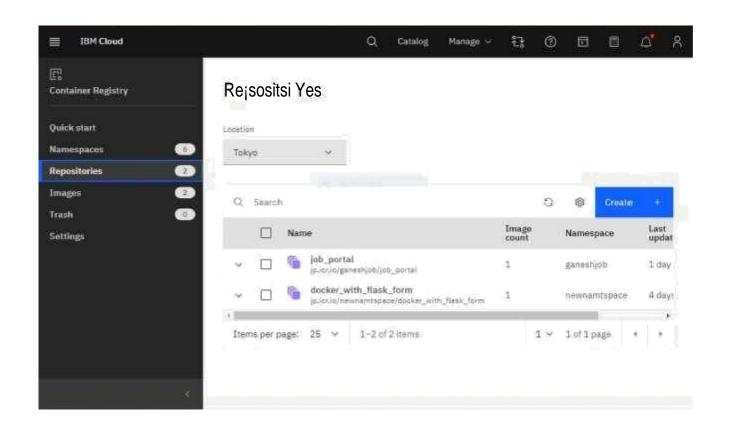
## Question-3:Create albm container registry and deploy helloworld app or jobportalapp

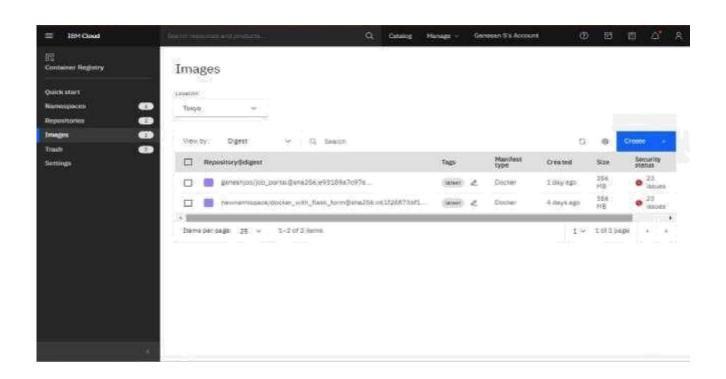
# 1) create a ibm container registry

```
Command Prompt
                                                                                                                                                                                                                                                                                                                                          X
   Account:
                                                        Ganesan 5's Account (2a239674b9ba463891acc3c4fcbe0a99)
                                                        No resource group targeted, use 'ibmcloud target -g RESOURCE GROUP'
 Resource group:
 CF API endpoint:
 Org:
 Space:
Change logs: https://github.com/IBM-Cloud/ibm-cloud-cli-release/releases/tag/v2.11.1
TIP: use 'ibmcloud config --check-version=false' to disable update check.
Do you want to update? [y/N] > y
Installing version '2.11.1'...
 Downloading...
                                                                                 14.88 MiB / 14.88 MiB [===
 15604696 bytes downloaded
 Saved in C:\Users\ADMIN\.bluemix\tmp\bx_2625690972\IBM_Cloud_CLI_2.11.1_amd64.exe
 C:\Users\ADMIN>ibmcloud plugin install container-registry
Charles to the container registry in the container registry to the country is the cloud in the container registry in the cloud in the container registry in the cloud in the container registry in the cloud in the country is the country in the coun
                                                                                                                                                                                                            -----] 100.00% 15
 12476416 bytes downloaded
 Installing binary...
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\ADMIN\.bluemix\plugins\container-registry. U
 se 'ibmcloud plugin show container-registry' to show its details.
 C:\Users\ADMIN>
```

### 2) deployhelloworld or jobportal

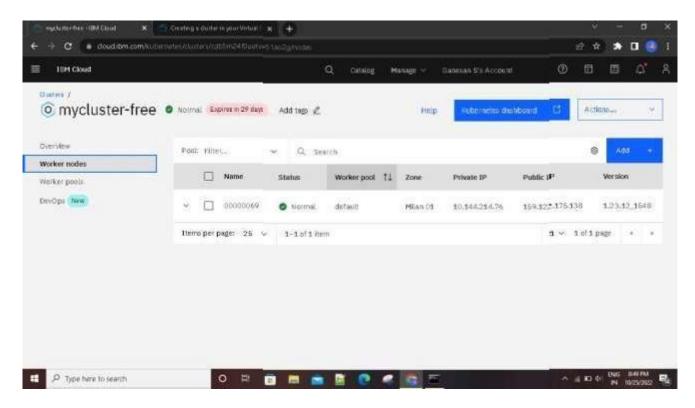
```
Section | Teaching | T
```





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

1) Creating a kubernetes cluster in ibm cloud



2) deploy helloworld image or jobportal image and also expose the same app to run in noteport

```
×
 C:\Windows\System32\cmd.exe
10/16/2022
                                    3,721 windows shortcut.txt
             12:28 PM
                                    2,897 YouTube.lnk
08/25/2022
            08:40 PM
               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>
```





O C//Windows/System32/cmd.acs "Mindows/system32.whoch expose deployment flask-app - type-modePort - name-flask service
he Service "flask sorvice" is invalid: metadata.mame: Invalid value: "flask service": a DNS:3835 label must consist of lower case alphanumenic characters or 'with an alphabetic character, and end with an alphanumenic character (e.g. "my name", or "abc-123", regex used for validation is "[a-2]([-a-28-9])"[a-28-9])?"] '(Nindows)system32;kubectl expose deployment flask-app - type-NodePort - name-flask service
he Service "flask service" is invalid: metadata.name: Invalid value: "flask service"; a DNS-1035 label must consist of lower case alphanumeric characters or "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-zH-9]\*[a-zH-9])?") :\Mindows\system32>kubectl expose deployment flask-app - type-kodePort - name-flask service
he Service "flask\_service" is invalid: metadata.name: Invalid value: "flask\_service": a DNS-1035 label must consist of lower case alphanumeric characters or '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])?') 'Nindows\system12>kubectl expose deployment flask-app --type-NodePort --name-flask-service room from server (AlreadyExists): services "flask-service" already exists \Mindows\system32> \Mindows\system32>kubect1 -n kubernetes-dashboard get deppiny \Mindows\system12>kubert1 -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Windows\system32\kubert1 -n kubernetus-dashboard gut deploy o resources found in kubernetes-dashboard namespace. :\Windows\system32>kubect1 proxy tarting to serve on 127,0,0,1:8801 \Mindows\system32>kubectl -n kubernetes-dashboard get deplou \Mindows\system32>kubectl -n kubernetes-dashboard get deploy o resources found in kubernetes-dashboard namespace. \Mindows\system32>kubectl -n kubernetes-dashboard get pods resources found in kubernetes-dashboard namespace. :\Windows\system32>kubectl expose deployment flask-app --type-NodePort --name-flask-service rror from server (&lreadyExists): services "Flask-service" already exists -\Mindows\system32>kubectl get ing ANI CLASS HOSTS ADDRESS PORTS AGE Eask-app-ingreus chome> \* 80 278 :\Mindows\system32>kubect1 get avc WHE TYPE CLUSTER-IP EXTERNAL-IP PORT(5)