Assignment -4 Docker and kubernetes

Question-1:

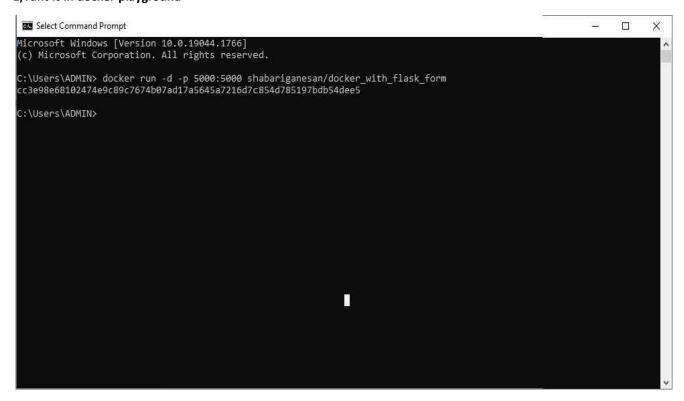
pull an image from docker hub and run it in docker playground.

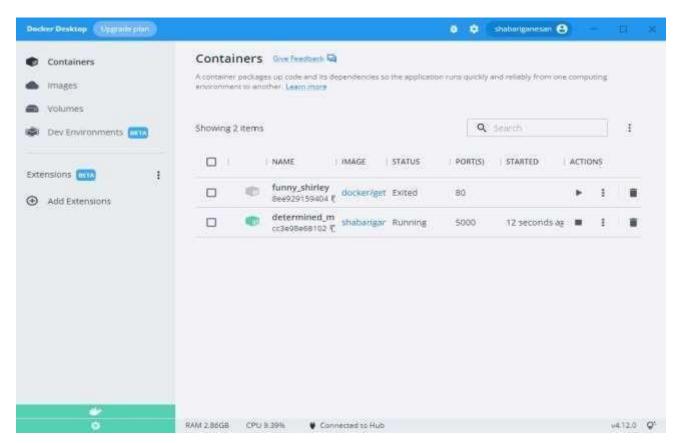
1) pull an image form docker hub

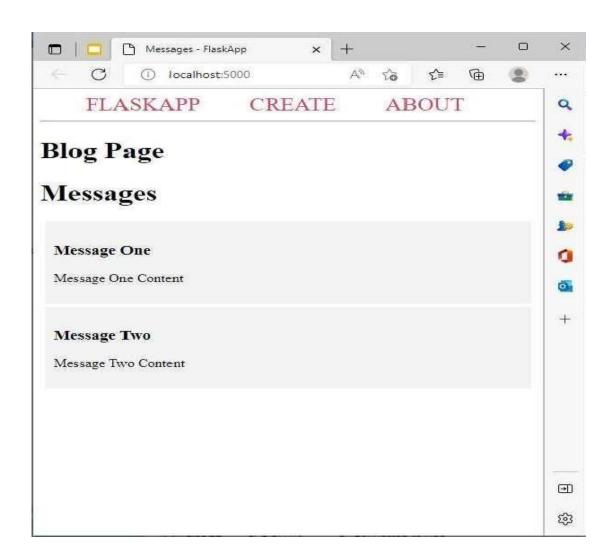
```
Microsoft Windows [Version 10.0.19044.1766]
(C) Microsoft Corporation. All rights reserved.

C:\Users\ADMIN;docker push shabariganesan/docker_with_flask_form
Using default tog: 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\ADMINDocker pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
167:1965ccddf; Pull complete
169431955; Pull complete
169431955; Pull complete
169693137533; Pull complete
169892056desf; Pull complete
169893157639; Pull complete
169892056desf; Pull complete
169893158des; Pull complete
1688931188des; Pull complete
16893128des; Pull complete
168931188des; Pull complete
16893188des; Pull complete
16893
```

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

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2) deploy in in dokcer application

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Osc. Gouler Dolla - Help.

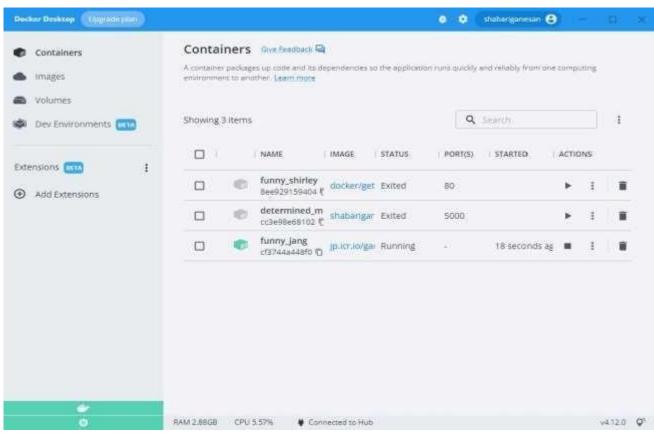
- Geoler Dolla - Help.

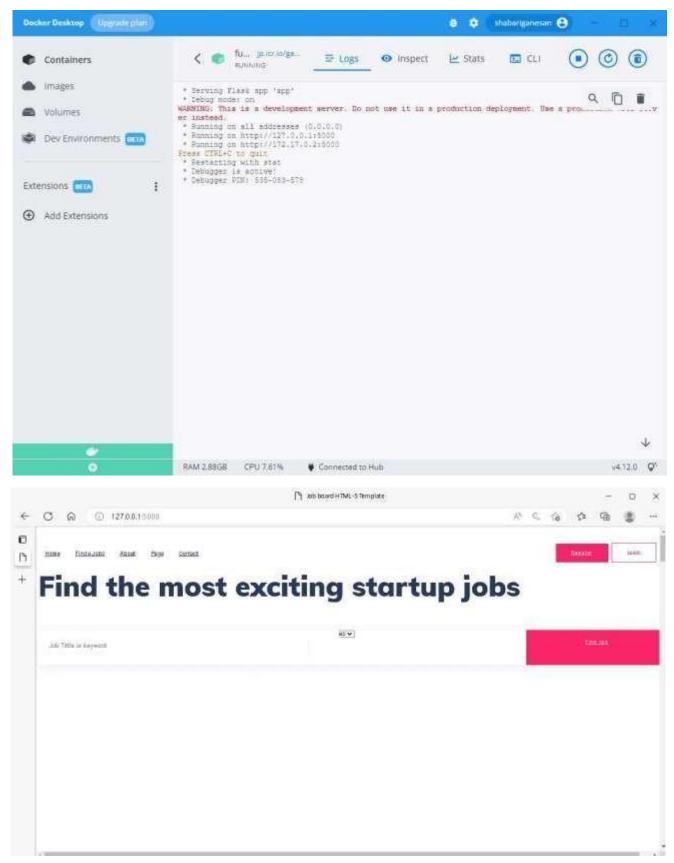
- Geole - Help.

- Geoler Dolla - Help.

- Geole - Help
```







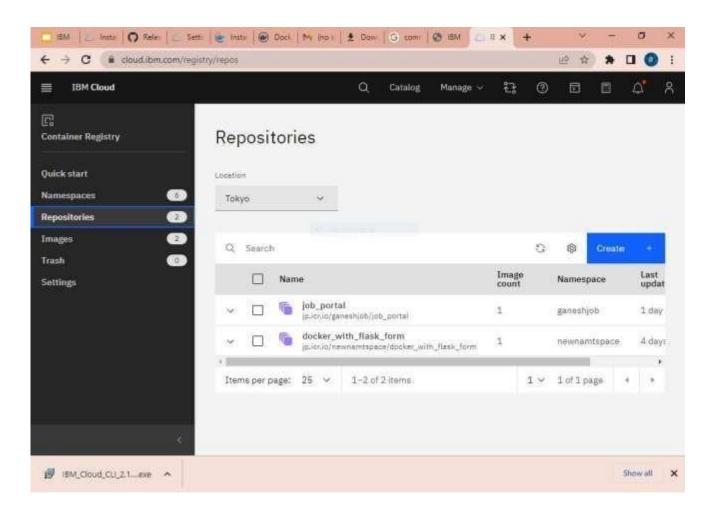
Question-3:Create albm container registry and deploy helloworld app or jobportalapp

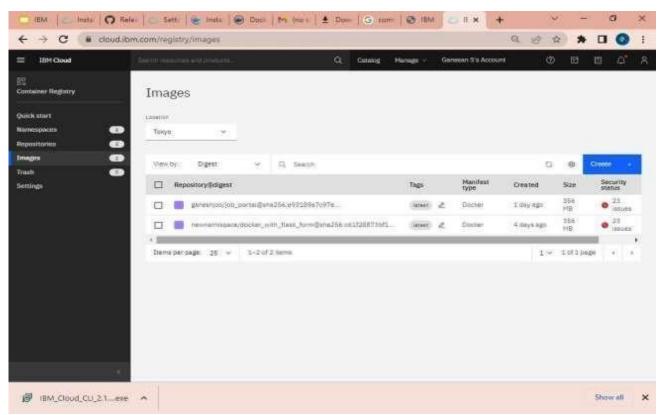
1) create a ibm container registry

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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...
                                                                                   ______] 100.00% 25
   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

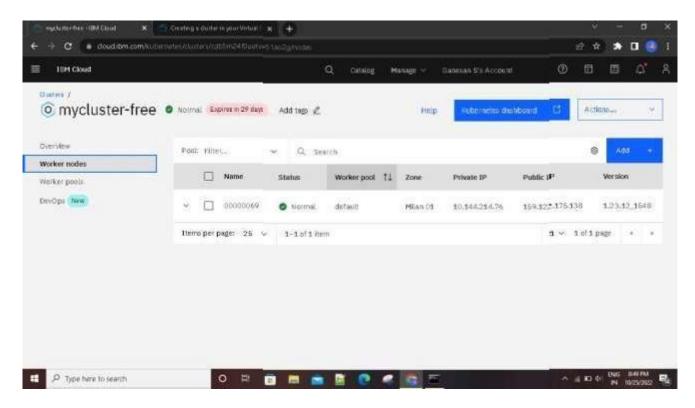
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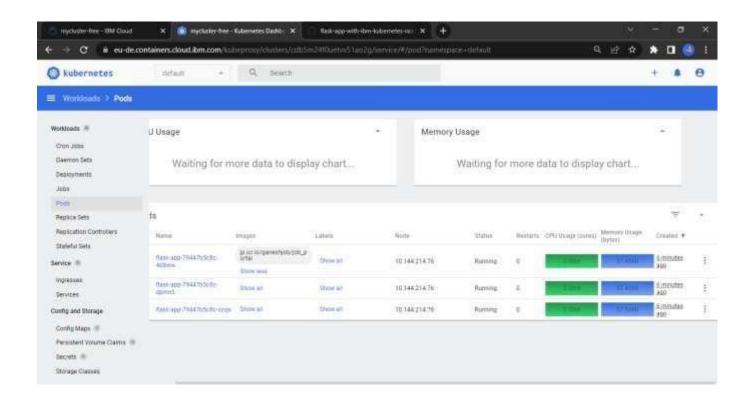
Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport

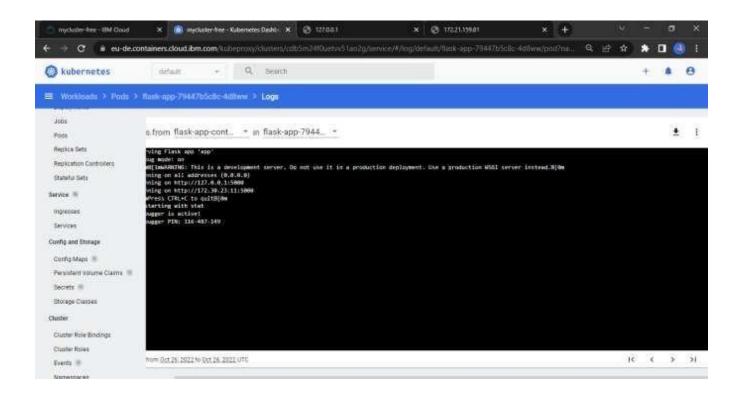
1) Creating a kubernetes cluster in ibm cloud



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
                                    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.whocil expose deployment flask-app - type-modePort - name-flask service
Ne 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>kuhectl 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-kodePort --name-flask-service rrow from server (Alreadytxists): services "flask-service" already exists \Mindows\system32> \Mindows\system32>kubect1 -n kubernetes-dashboard get depploy \Mindows\system32-kubert1 -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Windows\system32\kubert1 -n kubernetus-dashboard gut deploy o resources found in Kubernetus-dashboard namespace. :\Mindows\system32>kubect1 proxy terting to serve on 127,0,0,1:0001 \Mindows\system3Z>kubectl -n kubernetes-dashboard get deplou \Mindows\system32>kubectl -n kubernetes-deshboard get deploy o resources found in kubernetes-dashboard namespace. \Mindows\system32>kubectl -n kubernetes-dashboard get pods presources found in kubernetes-dashboard namespace. -Nulmdows\systemIZ>kubectl expose deployment flask-app --type-NudeFort --name-flask-service rror from server (Alreadytmists): services "Flask-service" already exists :\Mindows\Aystem32>kubectl get ing
MMI CLASS HOSTS ADDRESS PORTS AGE
Eask-app-ingress cnone> * 80 27m :\Mindows\system32>kubect1 get avc AME TYPE CLUSTER-IP