Assignment -4 Docker and kubernetes

Assignment Date	27 October 2022
Team ID	PNT2022TMID21838
Maximum Marks	2 Marks

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

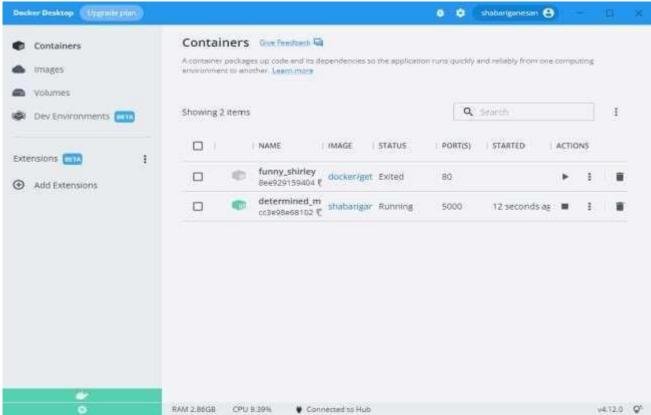
1) pull an image form docker hub

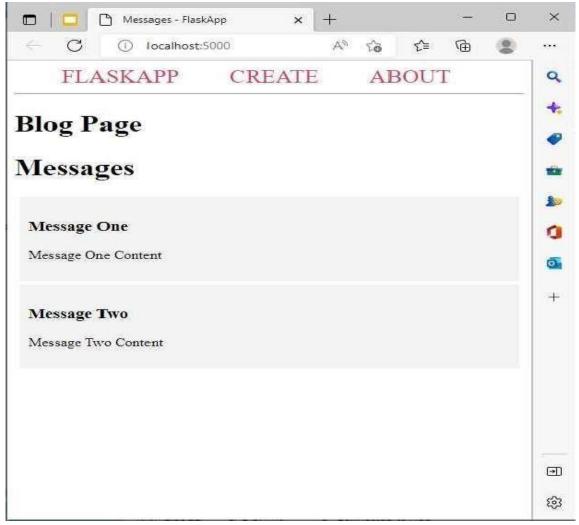
```
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ADMINY-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\ADMINY-docker push shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
1071505ccd0f: Pull complete
107150
```

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

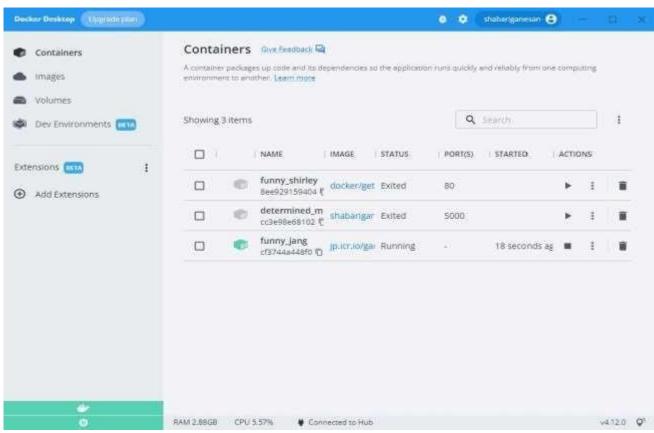
2) deploy in in docker application

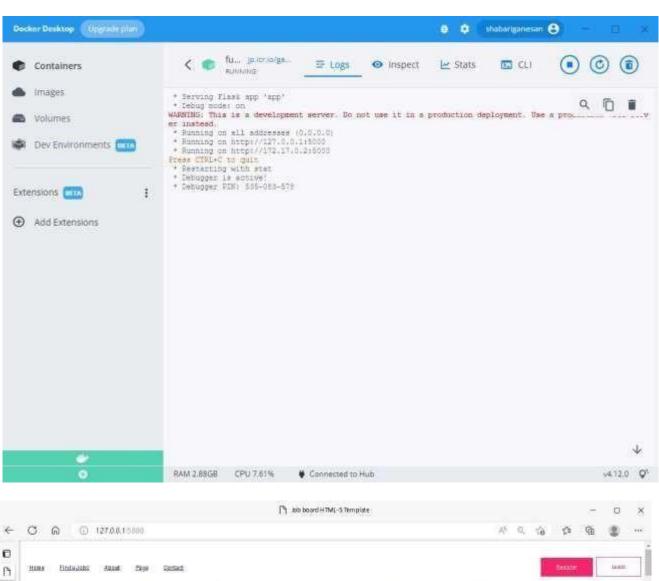
```
Select Combination (promotive contents)

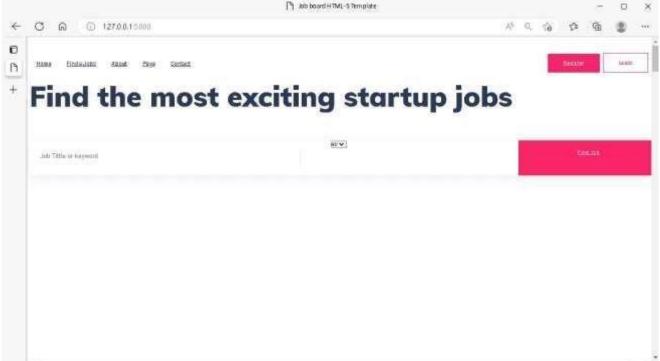
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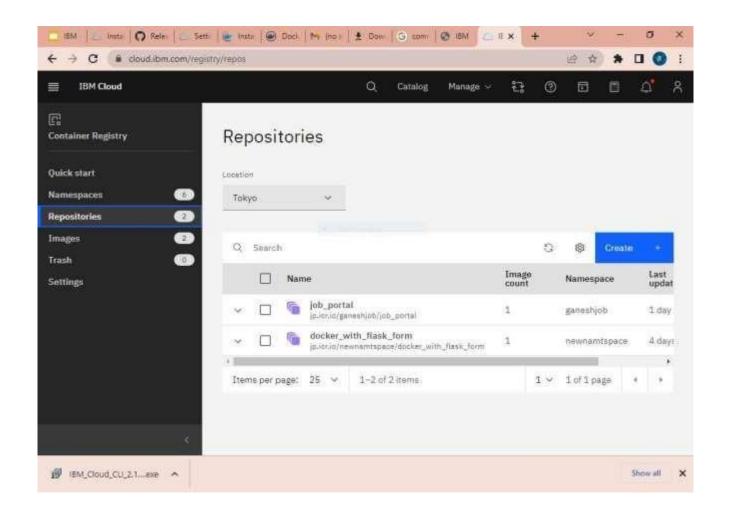


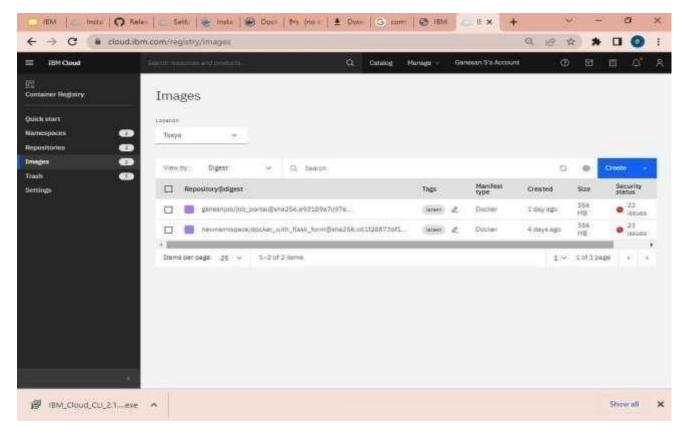
1) create a ibm container registry

```
Command Prompt
                                                                                                                                                X
                       Ganesan S'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
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file...
11.90 MiB / 11.90 MiB [==========] 100.00% 1s
12476416 bytes downloaded
Installing binary...
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\ADMIN\.bluemix\plugins\container-registry. U
    'ibmcloud plugin show container-registry' to show its details.
C:\Users\ADMIN>
```

2) deployhelloworld or jobportal

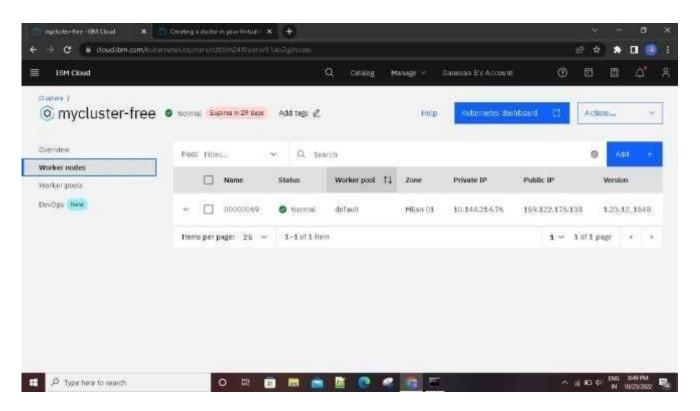
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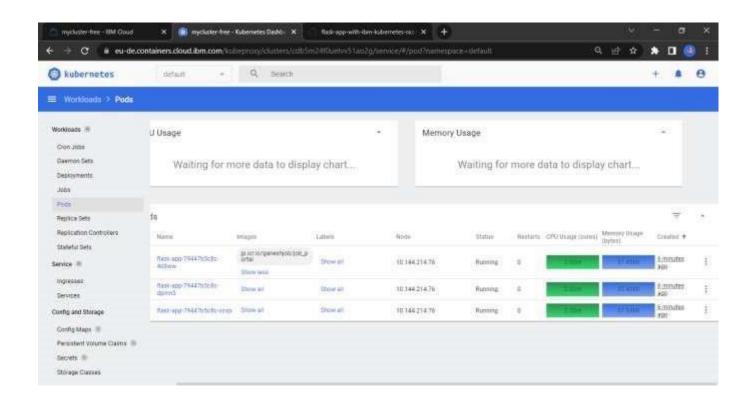
Question-4: Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport

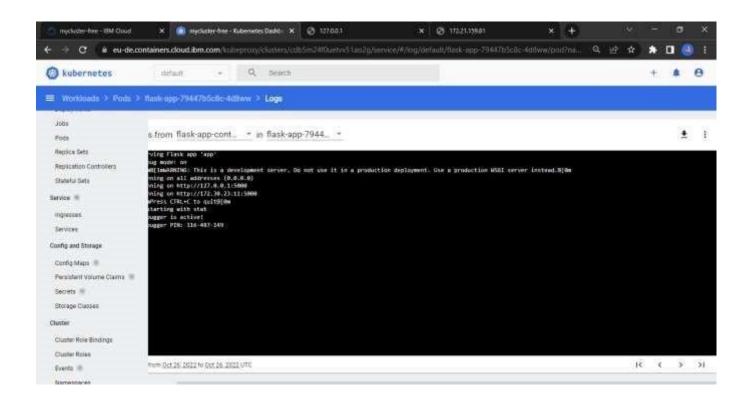
1)Creating a kubernetes cluster in ibm cloud



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

```
C:\Windows\System32\cmd.exe
                                                                                                                                    X
10/16/2022
              12:28 PM
                                       3,721 windows shortcut.txt
                 :40 PM 2,897 YouTube.lnk
24 File(s) 804,677,196 bytes
9 Dir(s) 79,221,886,976 bytes free
08/25/2022
              08:40 PM
                24 File(s)
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 ChWindows/System32/cmd.exe "Mindows/system32-kubect| expose deployment flask-app - type-NodePort --name-flask service
he Service "flask service" is invalid: metadata.name: Invalid value: "flask service": a DMS-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-1]([-a-16-9]*(a-16-9])?") 'Windows\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-1835 label must consist of lower case alphanumenic characters or '-', start with an alphabetic character, and end with an alphanumenic character (e.g. 'my-name', or 'abc-123', regex used for validation is '(a-z)((-a-z#-9)*(a-z#-9))*') :\Mindows\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-1835 label most consist of lower case alphanumeric characters or '-', start with an alphabetic character, and end with an alphanumeric character (e.g. 'my-name', or 'mbc-123', regex used for validation is '[m-2]([-m-28-9]*[m-28-9]))') 'Mindows\system32%kubectl expose deployment flask-app --type-NodePort --name=Flask-service rror from server (AlreadyLxists): services "flask-service" already exists \Windows\system32>kubectl -n kubernetes-dashboard get depploy \Mindows\system12-kubect1 -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32skubert1 -n kubernetes-dashboard get deploy o resources found in kubernetes-dashboard namespace. :\Mindows\system32>kubect1 proxy tarting to serve on 127,0,0,1:8001 \Mindows\system32\kubectl -n kubernetes-dashboard get deplou \Mindows\system32*kubect1 -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubectl -n kubernetes-dashboard get pods o resources found in kubernetes-dashboard namespace. *Mindows\system32>kubectl expose deployment flask-app --typewkodePort --: rror from server (&lreadyEmists): services "flask-service" siready exists -name-flask-service :\Mindows\system32>kubectl get ing AMI CLASS HOSTS ADDRESS PORTS AGE Task-upp-ingress cnone> * 80 276 :\Mindows\system32>kubectl get svc AME TYPE CLUSTER-IP EXTERNAL-ID PORTES)