Assignment -4 Docker and kubernetes

Assignment Date	10 October 2022
Student Name	Annamalai M
Student Roll Number	412519104006
Maximum Marks	2 Marks

Question-1:

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

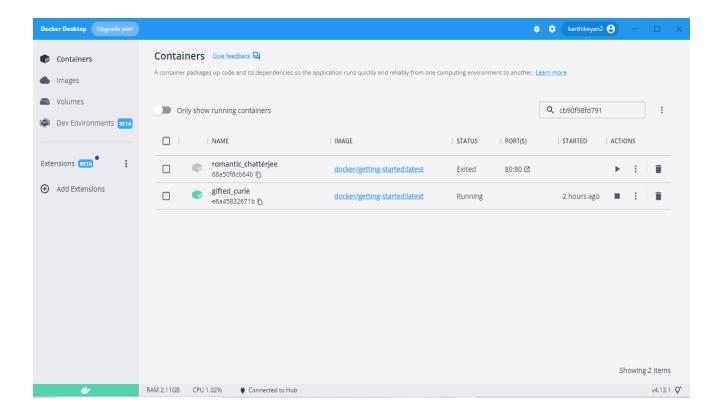
1) Pull an image form docker hub

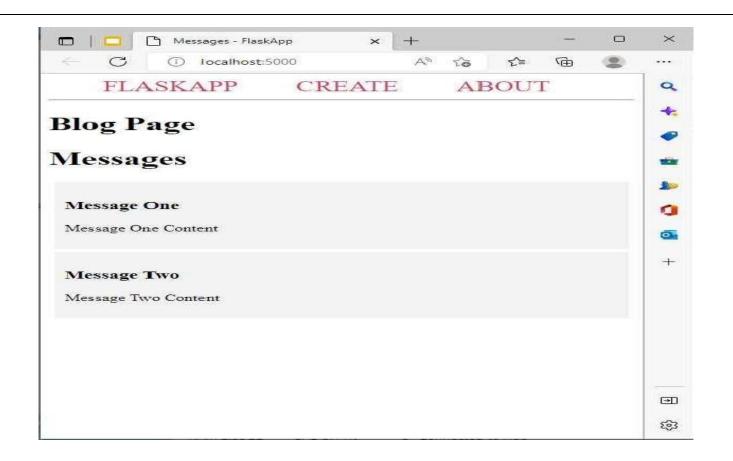
```
Command Prompt
                                                                                                                              Χ
C:\Users\karth>docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867cba5fcbd: Pull complete
4b639e65cb3b: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
68a50f8cb64b17ecfbd36b07c61218bee475f1f98694580df3d6a3cde8d04024
C:\Users\karth>docker images
REPOSITORY
                                      IMAGE ID
                                                      CREATED
                                     42a1cda0ba24 3 weeks ago
alpine/git
                           latest
                                                                      43.6MB
karthikeyan2/alpine/git latest
docker/getting-started latest
                                     42a1cda0ba24 3 weeks ago
                                                                      43.6MB
                                     cb90f98fd791
                                                      7 months ago
                                                                      28.8MB
```

```
Microsoft Kondows (Version 10.0.19044.1766)
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2) Run it in docker playground



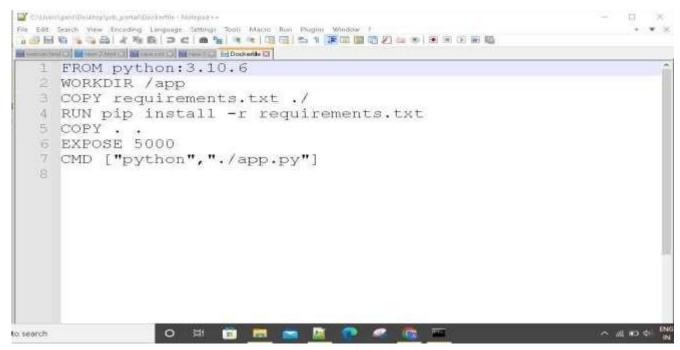




Question-2:

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

1) Creating a docker file for the jobportal application

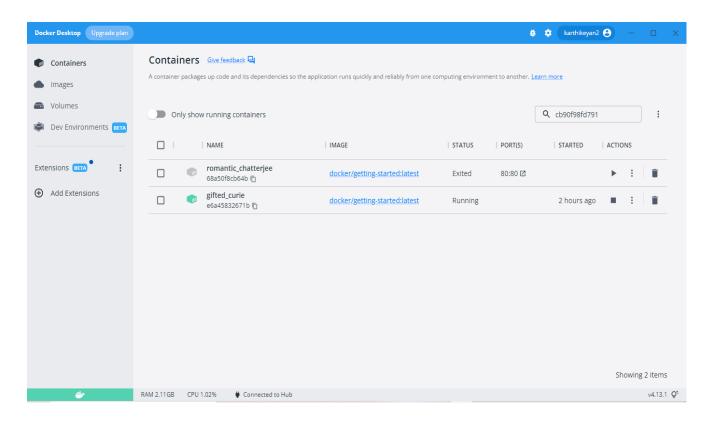


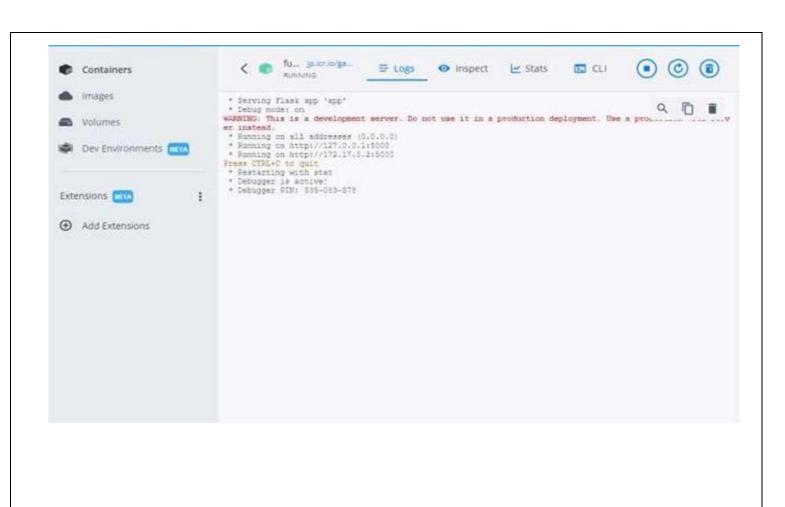
2) Deploy in in docker application

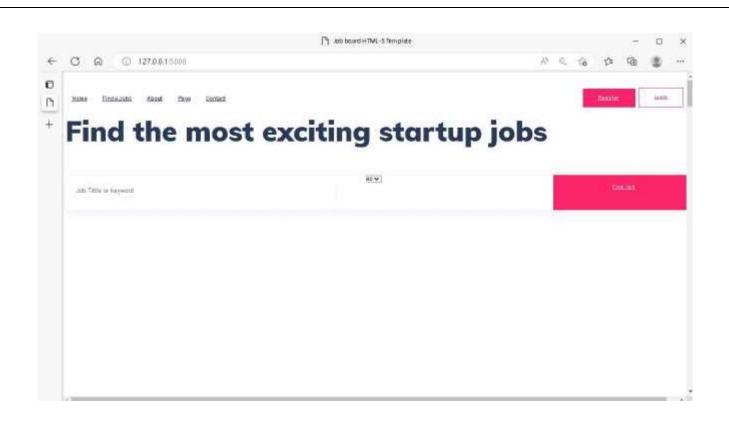
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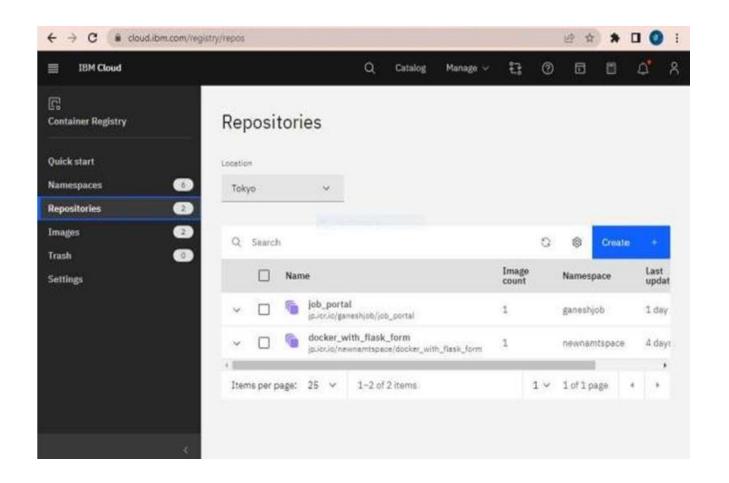
Question-3: Create a Ibm container registry and deploy helloworld app or jobportal app

1) Create a ibm container registry

```
Command Prompt
                                                                                                                                                     X
                         Ganesan S's Account (2a239674b9ba463891acc3c4fcbe0a99)
 Account:
Resource group:
                         No resource group targeted, use 'ibmcloud target -g 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
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 se 'ibmcloud plugin show container-registry' to show its details.
C:\Users\ADMIN>
```

2) Deploy helloworld or jobportal

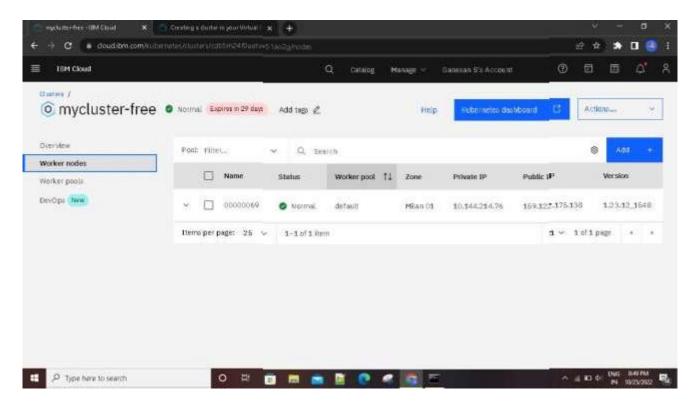
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Question-4:

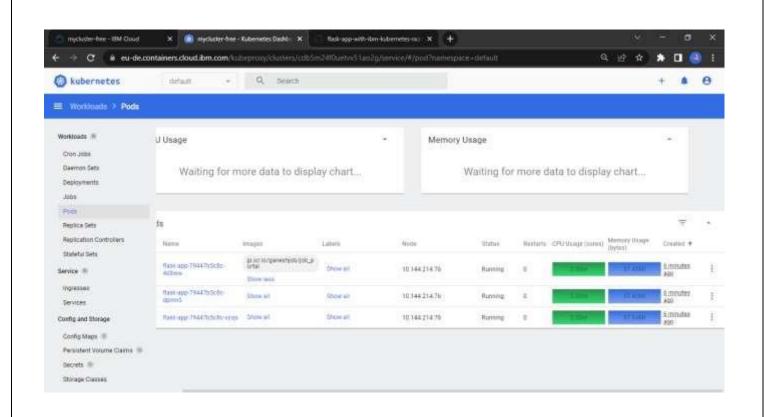
Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport

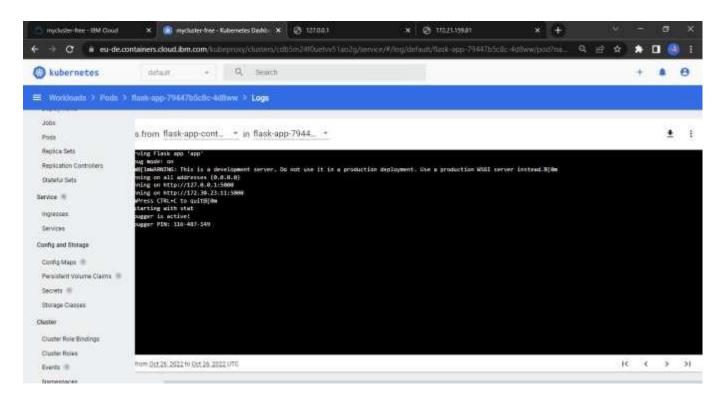
1) Creating a kubernetes cluster in ibm cloud



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

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 C:\Windows\System32\cmd.exe
10/16/2022
              12:28 PM
                                         3,721 windows shortcut.txt
                  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>
```





C. Widnowskystem27xhubect owners deployment flask-app -type-HodePort -name-flask service
The Service "flask service" is invalid: metadata.mame: Invalid value: "flask service", a DEG-885 label must consist of lower case alphanument characters or '.', start with an alphanument character (character (e.g., "my-name", or "abe-122", regox used for validation is '[a-[[-a-10]-12]-13]-13]-13]

C. Widnowskystem27xhubect degrees deployment flask-app -type-HodePort -name-flask service
The Service "flask service" is invalid metadata.mame Invalid value: "flask-service" or "abe-122", regox used for validation is '[a-2[[-a-10]-12]-13]-13]-13]

C. Widnowskystem27xhubect expose deployment flask-app -type-HodePort -name-flask service
The Service "flask service" is invalid or devotation.mame Invalid value: "flask-service or "abe-122", regox used for validation is '[a-2[[-a-10]-12]-12]-13]-13]-13]

C. Widnowskystem27xhubect expose deployment flask-app -type-HodePort -name-flask service
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