ASSIGNMENT — 4

DOCKER AND KUBERNETES

Student Name	SYED ABDUL RAHMAN S
Student Roll Number	110119104077
Maximum Marks	2 marks

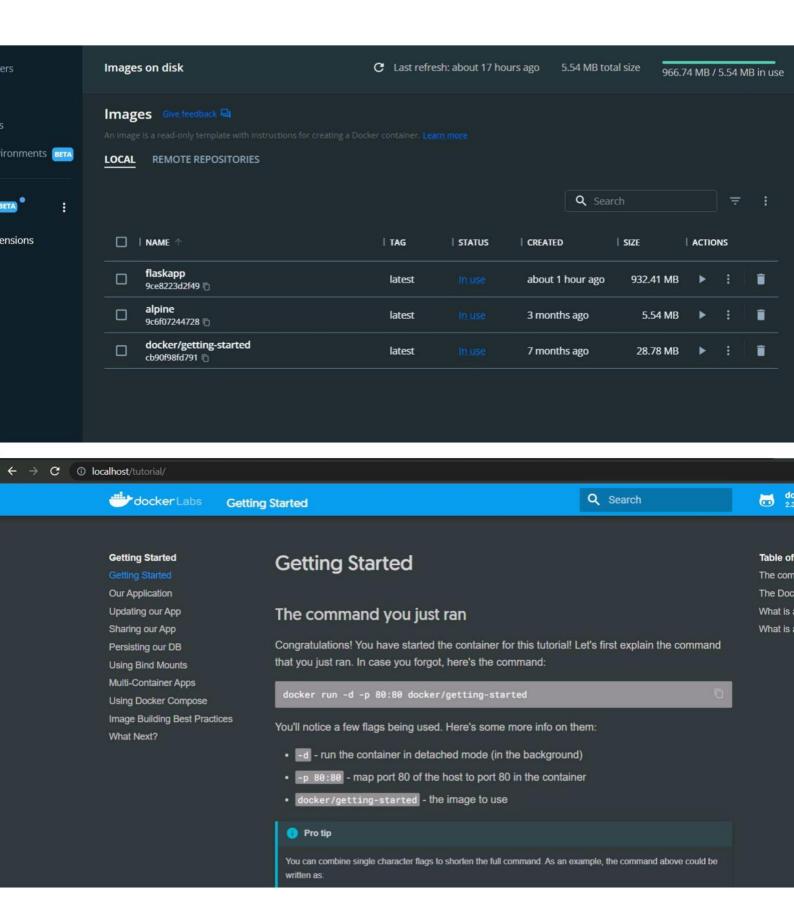
Question-I: pull an image from docker hub and run it in docker playground.

1) pull an image form docker hub

```
PowerShell
Loading personal and system profiles took 541ms.
→ assignment 4 git:(main) docker pull docker/getting-started
Using default tag: latest
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
Oc9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
docker.io/docker/getting-started:latest
→ assignment 4 git:(main)
```

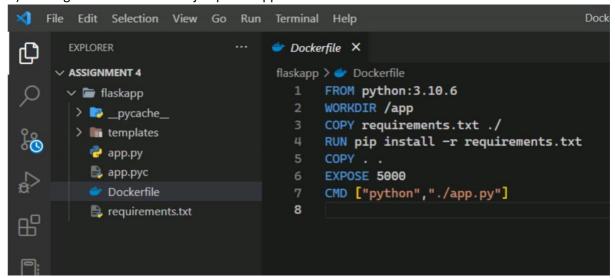
2)runt it in docker playground

Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae Status: Downloaded newer image for docker/getting—started: latest docker. io/docker/getting—started: latest -i assignment 4 git: (main) docker run docker/getting—started ee6d34bd49e201@6c8d3a3cc85babObde9c96a667bb3112bc896358efd6d2f68 -i assignment 4 git: (main) DI



Question-2: Create a docker file for the job portal application and deploy it in docker application.

1)Creating a docker file for the job portal application



```
unable to prepare context: path "flaskapp" not found

+ flaskapp git:(main) x flask --debug
Usage: flask [OPTIONS] COMMAND [ARGS]...
Try 'flask --help' for help.

Error: Missing command.

+ flaskapp git:(main) x flask --debug run

* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.0.0.1:5000
Press CTRL+C to quit

* Restarting with stat

* Debugger PIN: 160-502-960
127.0.0.1 - - [05/Nov/2022 10:54:17] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [05/Nov/2022 10:54:23] "GET / HTTP/1.1" 200 -
127.0.0.1 - [05/Nov/2022 10:54:23] "GET / Create/ HTTP/1.1" 200 -
127.0.0.1 - [05/Nov/2022 10:54:23] "GET / create/ HTTP/1.1" 200 -
127.0.0.1 - [05/Nov/2022 10:54:26] "GET / create/ HTTP/1.1" 200 -
127.0.0.1 - [05/Nov/2022 10:54:26] "GET / create/ HTTP/1.1" 200 -
```

2)deploy in in docker application

```
### Flaskapp git:(main) x docker build -t flaskapp .

| Flaskapp git:(main) x docker build -t flaskapp .

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| Flaskapp git:(main) x docker build -t flaskapp .

| Flaskapp git:(main) x docker build -t flaskapp .

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| Flaskapp git:(main) x docker build -t flaskapp .

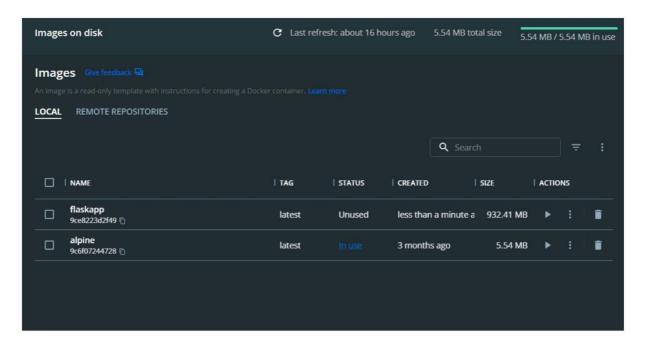
| Flaskapp git:(main) x docker build -t flaskapp .

| Flaskapp git:(main) x docker build -t flaskapp .

| Flaskapp git:(main) x docker build -t flaskapp .

| Flaskapp git:(main) x docker flaskapp .
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| Flaskapp git:(main) x docker flaskapp .
| Flaskapp git:(main) x docker flaskapp .
| Flaska
```





Log In

New user? Create an account

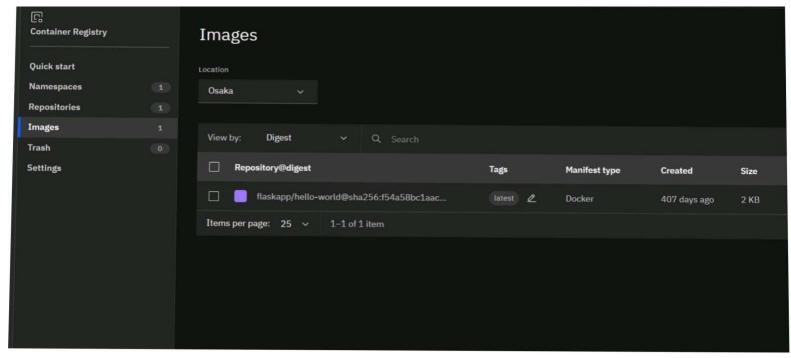
adnanshariqmd@gmaibcom

Login

Question-3:Create a IBM container registry and deploy hello world app or jobportalapp

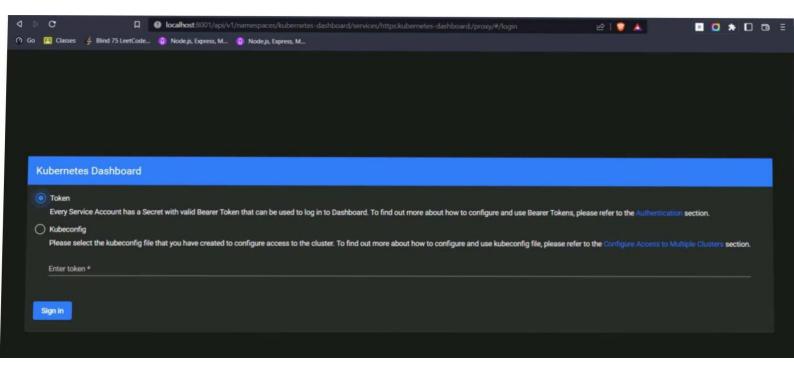
1) create a IBM container registry

```
git:(main) x ibmcloud
NAME:
  C:\Program Files\IBM\Cloud\bin\ibmcloud.exe - A command line tool to interact with IBM Cloud Find more information at: https://ibm.biz/cli-docs
 [environment variables] C:\Program Files\IBM\Cloud\bin\ibmcloud.exe [global options] command [arguments
ptions]
VERSION:
  2.12.1+b8488a1-2022-10-31T15:08:10+00:00
COMMANDS:
                   Manage accounts, users, orgs and spaces
Set or view target API endpoint
Retrieve usage and billing information
  account
  api
  billing
  catalog
                   Manage catalog
                   Run Cloud Foundry CLI with IBM Cloud CLI context
                   Write default values to the config
  config
                   Manage IBM Cloud Container Registry content and configuration.
Create, develop, deploy, and monitor applications
  cr
  dev
  enterprise
                   Manage enterprise, account groups and accounts.
Manage identities and access to resources
  iam
  login
                   Log user in
  logout
                   Log user out
                   Manage plug-ins and plug-in repositories
List all the regions
  plugin
  regions
```



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 note port

1)Creating a Kubernetes cluster in IBM cloud



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