## ASSIGNMENT – 4 DOCKER AND KUBERNETES

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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

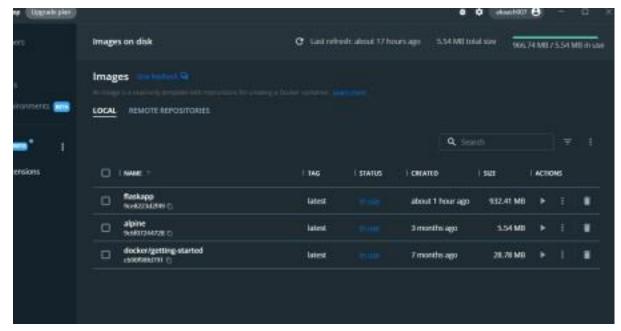
```
2 PowerShell
Loading personal and system profiles took 541ms.
+ assignment 4 git:(main) docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867cba5fcbd: Pull complete
4b639e65cb3b: Pull complete
861ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
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

assignment 4 git:(main) docker run -d -p 80:80 docker/getting-started
ee6d34bd49e20106c8d3a3cc85bab8bde9c96a667bb3112bc896358efd6d2f68

assignment 4 git:(main) D
```



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: (usin) / flask — debug
Usage: flask (OPTIONS) COMMAND (ARGS)...
Try "flask — help" for help.

Error: Missing command.

- flaskapp git: (usin) / flask — debug run

- Debug mode: on

MINNING: This is a development perver. So met use it in a production deployment. Now a production WSGS server instead.

- Running on http://127.0.8.1:5000

Press CSRL+C to quit

- Restarting with stat

- Debugger is active:

- Debugger is active:

- Debugger is active:

- Debugger IS 160-502-960

127.0.8.1 - - [05/Nov/2022 10:54:13] "GET / HTTP/1.1" 200 -

127.0.8.1 - - [05/Nov/2022 10:54:28] "GET / HTTP/1.1" 200 -

127.0.8.1 - - [05/Nov/2022 10:54:28] "GET / HTTP/1.1" 200 -

127.0.8.1 - - [05/Nov/2022 10:54:28] "GET / Create/ HTTP/1.1" 200 -

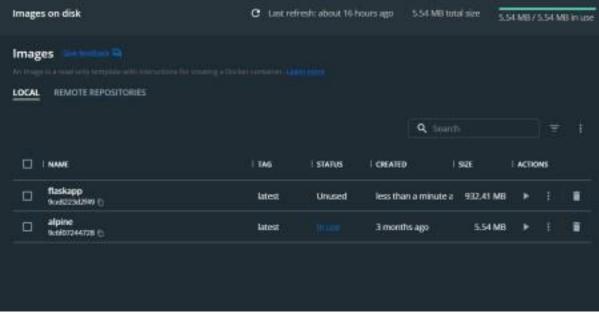
127.0.8.1 - - [05/Nov/2022 10:54:26] "GET / Create/ HTTP/1.1" 200 -

127.0.8.1 - - [05/Nov/2022 10:54:26] "GET / Create/ HTTP/1.1" 200 -

127.0.8.1 - - [05/Nov/2022 10:54:26] "GET / Create/ HTTP/1.1" 200 -
```

2) deploy in in docker application



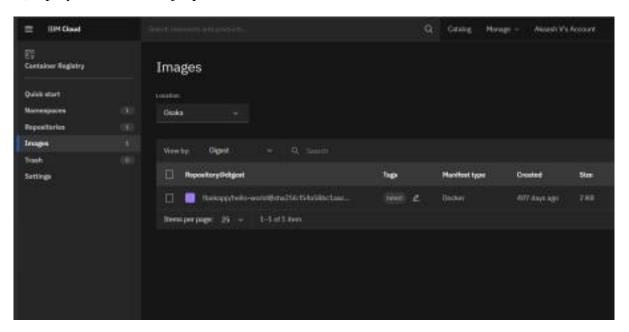


## Question-3: Create a IBM container registry and deploy hello world app or jobportalapp

1) create a IBM container registry

```
NAME:
  C:\Program Files\IBM\Cloud\bin\ibecloud.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]
  2.12.1+b8488a1-2022-10-31T15:08:10+80:08
COMMANDS:
                     Manage accounts, users, orgs and spaces
Set or view target API endpoint
Retrieve usage and billing information
  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.
  cr
                     Create, develop, deploy, and monitor applications
Manage enterprise, account groups and accounts.
Manage identities and access to resources
  dev
   enterprise
   iam
   login
                     Log user in
   logout
                     Log user out
                     Manage plug-ins and plug-in repositories
List all the regions
  plugin
   regions
```

## 2)deploy hello world or jobportal



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

