

ASSIGNMENT-4

KUBERNETS/DOCKER

Assignment Date	04 October 2022
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Student Roll Number	210519205032
Maximum Marks	2 MARKS

Question 1:

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

```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```

Question 2:

Create a docker file for the job portal application and deploy it in Docker Desktop Application

FROM

helloworld:

latest

WORKDIR

~/Desktop/

ADD .

helloworld/

WORKDIR

~/Desktop/htmlfile RUN

pip install -r

requirements RUN

chmod +x app.sh

CMD["/bin/sh","app.s"]

Question 3:

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Create an IBM container registry and deploy helloworld app or Job portal app.

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in node port.

Docker Desktop

Upgrade plan

Sign in

Containers

Images

Volumes

Dev Environments

Extensions

Add Extensions

Images on disk

Last refresh: 8 minutes ago

2 Images

13.26 KB total size

13.26 KB / 13.26 KB in use

Clean up

Images

Give Feedback

LOCAL

REMOTE REPOSITORIES

Search

In use only

NAME		TAG	IMAGE ID	CREATED	SIZE
hello-world	IN USE	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
irc.io/0034ns/helloworld	IN USE	latest	feb5d9fea6a5	about 1 year ago	13.26 KB

Connect to Remote Content

Not connected

Store and backup your images remotely

Collaborate with your team

Unlock vulnerability scanning for greater security

Connect for free

Sign in

RAM 1.76GB

CPU 0.06%

Not connected to Hub

v4.12.0