

ASSIGNMENT-4

Assignment Date	12 November 2022
Team ID	PNT2022TMID41218
Maximum Marks	2 Marks

Question 1:

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

[illegible]

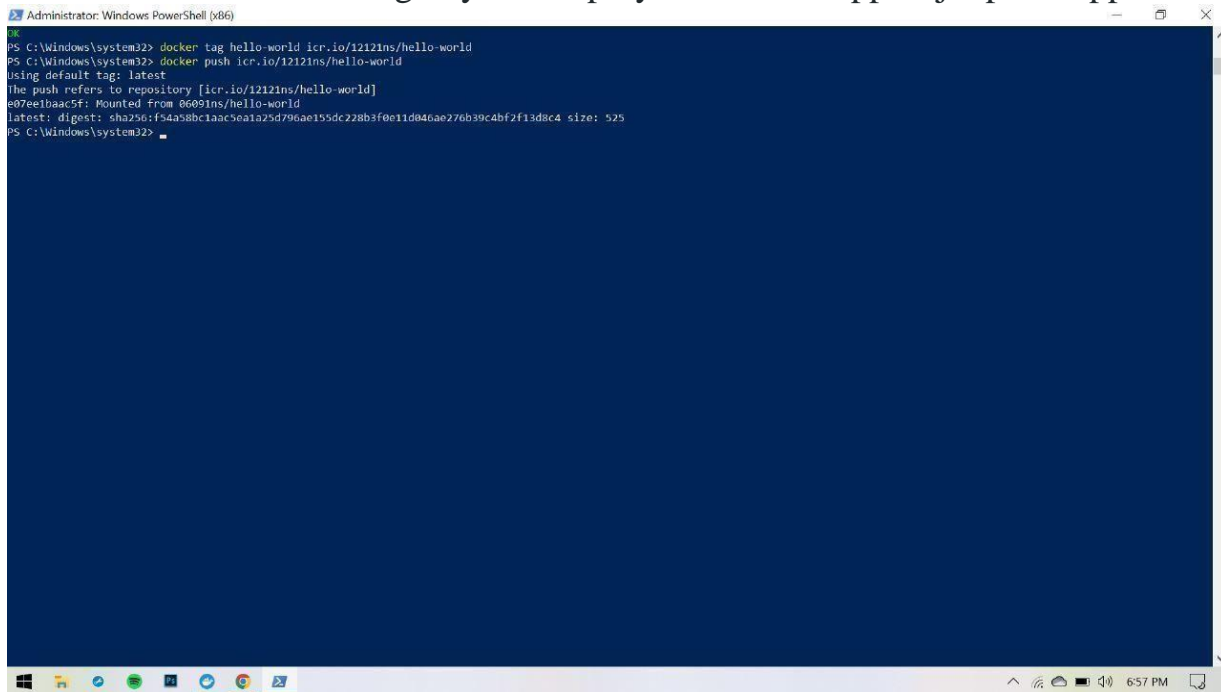
Question 2:

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

```
FROM python:3.10.6
WORKDIR /app
COPY requirements.txt ./
RUN pip install -r requirements.txt
COPY . .
EXPOSE 5000
CMD ["python", "./app.py"]
```

Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.

A screenshot of a Windows PowerShell terminal window titled "Administrator: Windows PowerShell (x86)". The terminal has a dark blue background with white text. The commands and output are as follows:

```
PS C:\Windows\system32> docker tag hello-world icr.io/12121ns/hello-world
PS C:\Windows\system32> docker push icr.io/12121ns/hello-world
using default tag: latest
The push refers to repository [icr.io/12121ns/hello-world]
e07ee1baac5f: Mounted from e6091ns/hello-world
latest: digest: sha256:f94a58b31a0c5ea1a25d796ae155dc228b3f0e11d040ae270b39c4bf2f13d8c4 size: 525
PS C:\Windows\system32>
```

The terminal window shows the process of tagging a local Docker image 'hello-world' with the name 'icr.io/12121ns/hello-world' and then pushing it to the IBM Container Registry. The output indicates that the image was successfully pushed, showing the digest and size of the latest tag.

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 nodeport.

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cloud.ibm.com/kubernetes/clusters/cdgi79qf0jdudh0ov2a0/nodes

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Clusters /mycluster-freePreparing master, workers...Expires in 30 daysAdd tags

OverviewWorker nodesWorker poolsDevOps

Pool: Filter...SearchAdd

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000008c	Provision pending	default	Milan 01			1.24.6_1541

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HelpKubernetes dashboardActions...

HelpLog in to your clusterDeploy your appExpose your appAdd storage to your appConnect integrationsInstall add-onsTroubleshoot

25°C Cloudy

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