

ASSIGNMENT-4

Assignment Date	03 November 2022
Team ID	PNT2022TMID46709

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 jobportal application and deploy it in Docker desktop application.

FROM helloworld:latest

WORKDIR ~/Desktop/

ADD . helloworld/

WORKDIR ~/Desktop/htmlfile

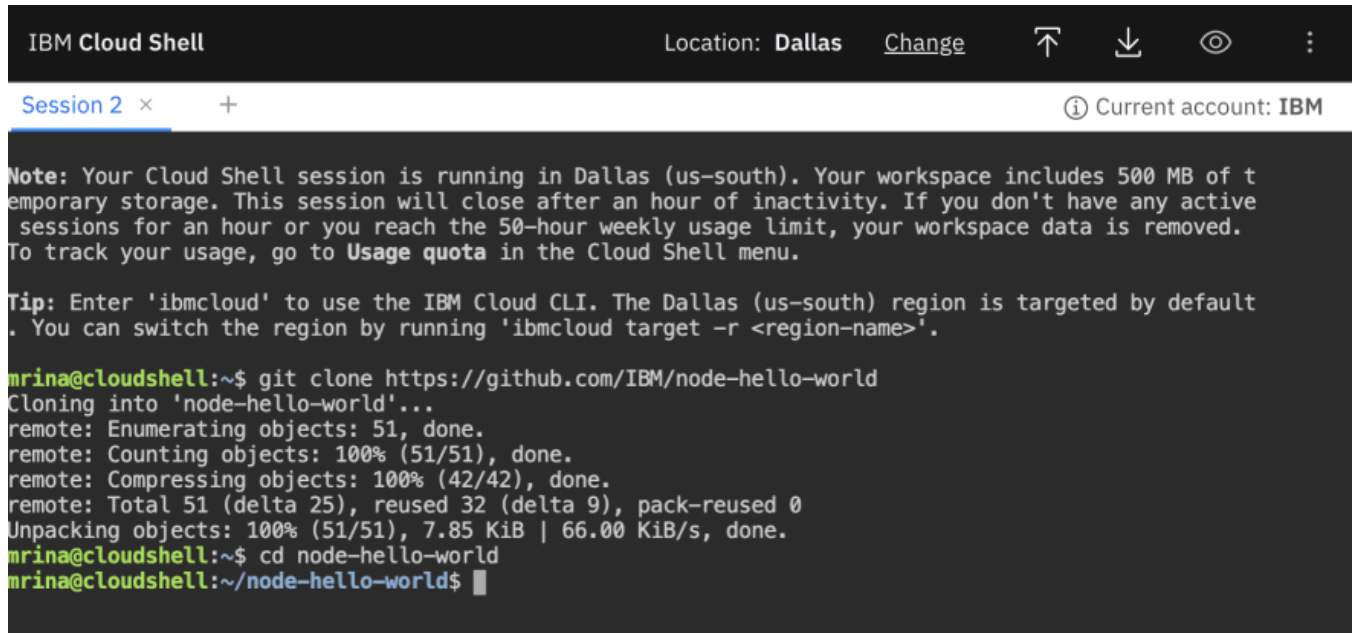
RUN pip install -r requirements

RUN chmod +x app.sh

CMD

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

Question 3:



IBM Cloud Shell

Location: **Dallas** [Change](#)

Session 2 × +

Current account: **IBM**

Note: Your Cloud Shell session is running in Dallas (us-south). Your workspace includes 500 MB of temporary storage. This session will close after an hour of inactivity. If you don't have any active sessions for an hour or you reach the 50-hour weekly usage limit, your workspace data is removed. To track your usage, go to **Usage quota** in the Cloud Shell menu.

Tip: Enter 'ibmcloud' to use the IBM Cloud CLI. The Dallas (us-south) region is targeted by default. You can switch the region by running 'ibmcloud target -r <region-name>'.

```
mrina@cloudshell:~$ git clone https://github.com/IBM/node-hello-world
Cloning into 'node-hello-world'...
remote: Enumerating objects: 51, done.
remote: Counting objects: 100% (51/51), done.
remote: Compressing objects: 100% (42/42), done.
remote: Total 51 (delta 25), reused 32 (delta 9), pack-reused 0
Unpacking objects: 100% (51/51), 7.85 KiB | 66.00 KiB/s, done.
mrina@cloudshell:~$ cd node-hello-world
mrina@cloudshell:~/node-hello-world$
```

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

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.

