

ASSIGNMENT-4

Team ID	PNT2022TMID07403
Project Name	Personal Expense Tracker Application
Maximum Marks	2 Marks
Batch Number	B2-2M4E

Question-1:

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

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:55:31, a 'CLOSE SESSION' button, and a list of instances. The main area displays the instance ID 'cdeigju3_cdeigmm3tccg00bnlf50' and its IP '192.168.0.13'. Below this, there's a terminal window showing the following commands and output:

```
# The FWD team.
#####
[model] (local) root@192.168.0.13 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:a18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
[model] (local) root@192.168.0.13 ~
$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
```

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:52:13, a 'CLOSE SESSION' button, and a list of instances. The main area displays the instance ID 'cdeigju3_cdeigmm3tccg00bnlf50' and its IP '192.168.0.13'. Below this, there's a terminal window showing the following commands and output:

```
$ docker images hello-world
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world   latest    feb5d9fea6a5  13 months ago  13.2kB
[model] (local) root@192.168.0.13 ~
$ docker run --user $9080:$9081 hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.
```

Question-2:

Create a Docker file for the job portal application and deploy it in Docker desktop application.

FROM jobportal1 : latest

WORKDIR ~/Desktop/

ADD . jobportal1/

WORKDIR ~/Desktop/html

RUN pip install -r requirements

RUN chmod + x app.sh

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

Question-3:

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

```
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
```

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 nodeport.

