Assignment – 4

Name	Gottimukkala V N Akshay Varma
Roll Number	SSNCE195001033
Batch	B1A3E-07

Aim:

1. Pull an Image from docker hub and run it in Docker Playground

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

3. Create a IBM container registry and deploy helloworld app or jobportal app

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

1. Pull an Image from docker hub and run it in Docker Playground

03:57:27

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8
node1

cdjqsim3_cdjqske3tccg00d5v3hg

IP
192.168.0.8   OPEN PORT

Memory   CPU

SSH
ssh ip172-0-51-cdjqsim3tccg00d5v3h0@direct.labs.play

DELETE   **EDITOR**

```
# This is a sandbox environment. Using personal credentials    #
# is HIGHLY! discouraged. Any consequences of doing so are     #
# completely the user's responsibilites.                       #
#                                                              #
# The PWD team.                                                #
###############################################################
[node1] (local) root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.s
ock uifd/ui-for-docker
05907b94bed7caa74716daa51be57760675fb52f05683622ba70d55abb31a875
[node1] (local) root@192.168.0.8 ~
$
```

Not secure | ip172-18-0-51-cdjqsim3tccg00d5v3h0-9000.direct.labs.play-with-docker.com/#/

Running Containers

- upbeat_goldberg **Up 4 minutes**

Status

Running   Stopped   Ghost

Containers created

```
1



0
11/6/2022
```

Images created

```
1



0
9/8/2016
```

Docker API Version: **1.41** UI Version: **v0.11.0**   UI For Docker

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/sreyhtml
RUN pip install -r requirements
RUN chmod +x app.sh
CMD ["/bin/sh","app.sh"]

3. Create a IBM container registry and deploy job portal app

```
PS C:\WINDOWS\system32> docker tag hello-world icr.io/26031ns/hello-world
PS C:\WINDOWS\system32> docker push icr.io/26031ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/26031ns/hello-world]
e07ee1baac5f: Mounted from 09876ns/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

4. Create a Kubernetes cluster in IBM cloud and deploy jobportal image and also expose the same app to run in nodeport