

Assignment – 4

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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

The screenshot shows a web browser window with the URL <https://hub.docker.com/r/uifd/ui-for-docker>. The page displays the Docker Hub interface for the 'uifd/ui-for-docker' repository. The repository is marked as deprecated, with a message stating: 'This repo is deprecated. Development continues at: [portainer/portainer](#)'. The page also shows the Docker Pull Command: `docker pull uifd/ui-for-docker`. The repository is created by 'uifd' and was updated 6 years ago. The page includes tabs for 'Overview' and 'Tags', and a 'Goals' section at the bottom.

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 ip172-18-0-51-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 responsibilities. #
#
# The FWD 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 ~
$
```

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

The screenshot displays the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in a 'Preparing master, workers...' state and will expire in 30 days. The 'Worker nodes' section shows a single node with the following details:

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000086	Normal	default	Milan 01	10.144.182.125	169.51.200.47	1.24.6_1541

The dashboard also includes a sidebar with navigation options like 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps'. A 'Help' sidebar on the right lists various actions such as 'Log in to your cluster', 'Deploy your app', 'Expose your app', 'Add storage to your app', 'Connect integrations', 'Install add-ons', and 'Troubleshoot'.