

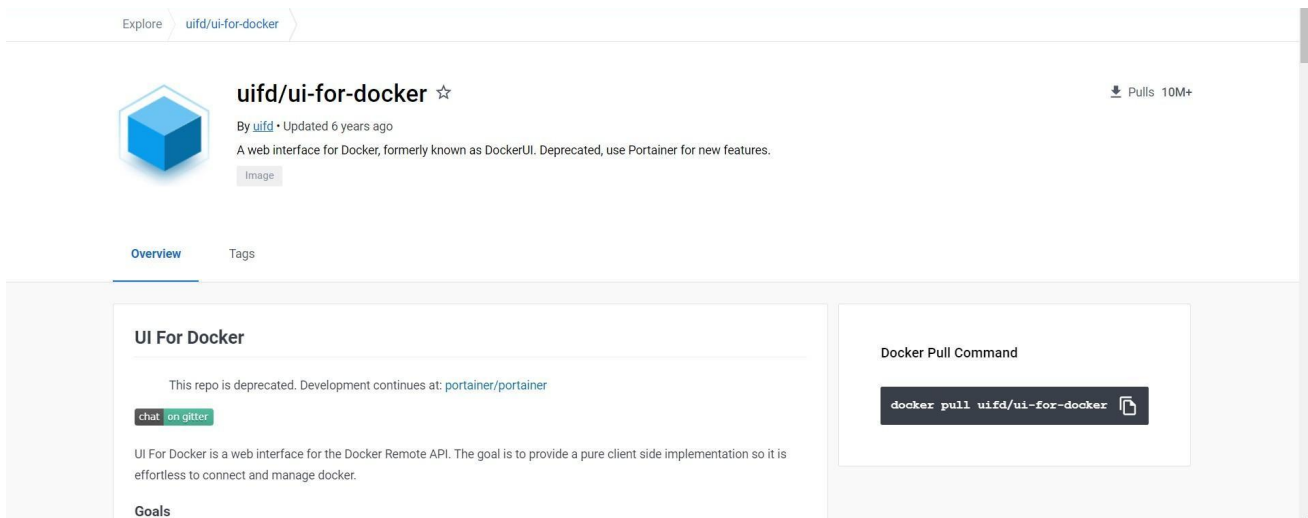
# Assignment – 4

Name	Hemanent S
Roll Number	SSNCE195001038
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



The screenshot shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page includes a repository icon, the name `uifd/ui-for-docker` with a star icon, and a note that the repository is deprecated and development continues at `portainer/portainer`. The `Overview` tab is selected, showing a description of the repository as a web interface for the Docker Remote API. A `Docker Pull Command` box displays the command `docker pull uifd/ui-for-docker`. The page also shows a `chat on github` button and a `Tags` section.

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
(node1) (local) root@192.168.0.8 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
05907b94bed7caa74716da51be57760675fb52f05683622ba70d55abb31a875
(node1) (local) root@192.168.0.8 ~
$

```

## Running Containers

Containers  
created

Images  
created

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

```
FROM  
helloworld:latest  
WORKDIR  
~/Desktop/ ADD .  
helloworld/  
WORKDIR~/Desktop/sreyht  
ml 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. On the left, a sidebar shows navigation options: Overview, Worker nodes (selected), Worker pools, and DevOps. The main area shows the 'mycluster-free' cluster with a status of 'Preparing master, workers...' and an expiration notice 'Expires in 30 days'. Below this, a table lists the worker nodes. There is one node with ID '00000086', status 'Normal', and version '1.24.6\_1541'. The table includes columns for Name, Status, Worker pool, Zone, Private IP, Public IP, and Version. On the right, a 'Help' sidebar lists various actions like 'Log in to your cluster', 'Deploy your app', 'Expose your app', 'Add storage to your app', 'Connect integrations', 'Install add-ons', and 'Troubleshoot'.

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