

# ASSIGNMENT 4

## 1. Pull an Image from docker hub and run it in docker playground.

```
docker pull uifd/ui-for-docker
```

```
docker run -d -p 9000:9000 --privileged -v
```

```
/var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
```

03:57:05

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13  
node1

cdi0ji60\_cdi0jpe0qau0008f9u8g

IP  
192.168.0.13

OPEN PORT  
9000

Memory  
1.59% (63.77MiB / 3.906GiB)

CPU  
0.45%

SSH  
ssh ip172-18-0-40-cdi0ji60qau0008f9u80@direct.labs.play-v

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 PWD team.
#####
[node1] (local) root@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Full complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
c2557355d58010b2607d19372fd954a94b3f2c922d1c5377d8458ff941cb2cab
[node1] (local) root@192.168.0.13 ~
$
```

UI For Docker

Dashboard

Containers

Containers Network

Images

Networks

Volumes

Info

Refresh

Running Containers

• serene\_keller Up 17 seconds

Status

Running

Stopped

Ghost

Containers created

1

0

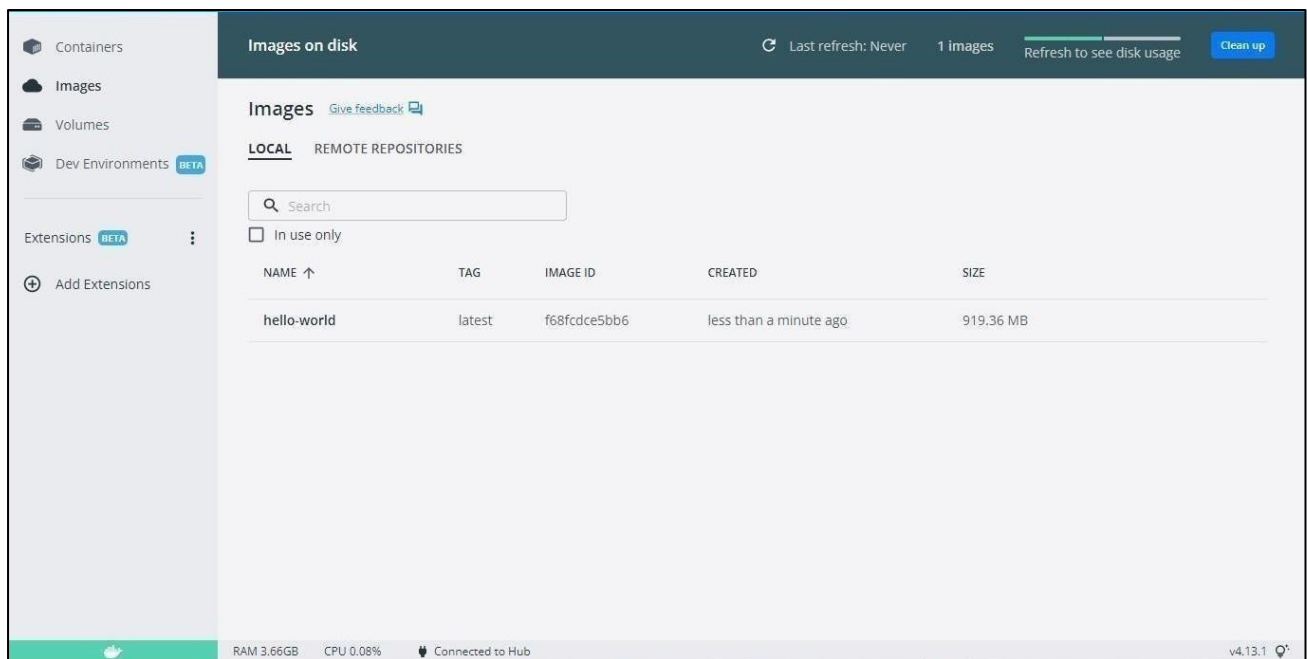
04/11/2022

Images created

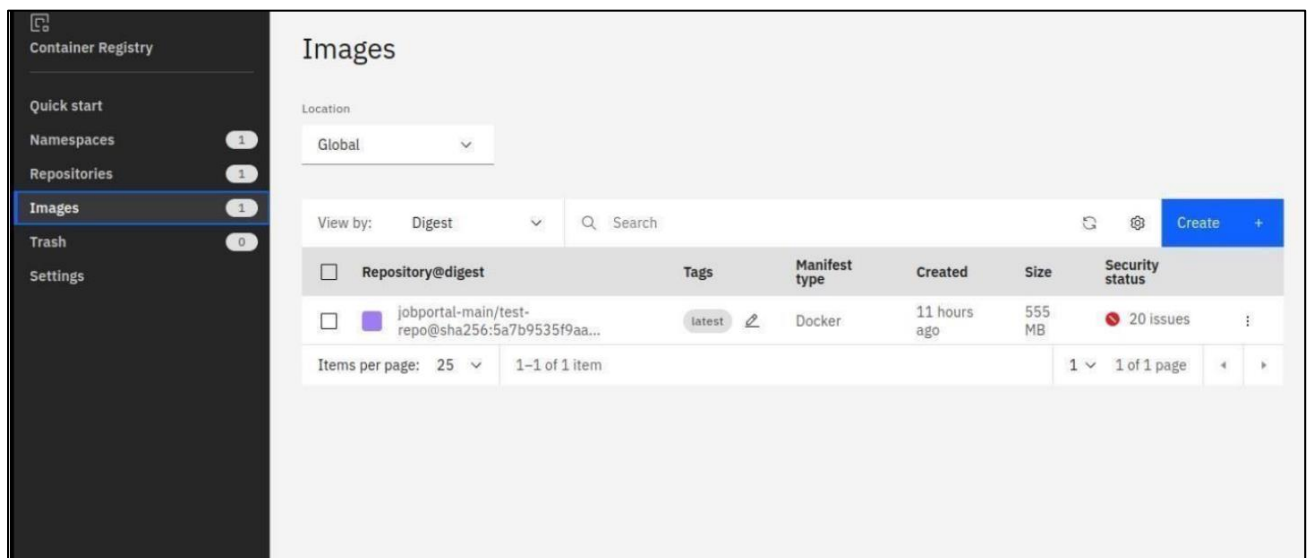
1

## 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
```



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



**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.**

apiVersion: v1 kind:

Service metadata:

name: hello-world- deployment spec:

ports: - port:

5000 targetPort:

5000 selector: app:

hello-world --- apiVersion: apps/v1 kind: Deployment metadata: name:

hello-world- deployment spec:

replic as: 1 select or:

matchLabels: app: helloworld

template: meta da ta :

la be ls :

app: hello- world spec:

containers:

- name: hello-world image: au.icr.io/hello-worldapp/helloworld imagePullPolicy:

Always ports:

- containerPort: 5000