

# ASSISGNMENT-4

ASSIGNMENT DATE	03 NOVEMBER 2022
Student Name	Gowtham E
Student Roll Number	820419104023
MAXIMUM MARK	2 Marks

## QUESTION 1:

Pull an image from docker hub and run it is docker Playground

03:30:11

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28  
node1

cdlmqmf9\_cdlmqf91rrg00bt0j50

IP  
192.168.0.28

OPEN PORT  
9000

Memory  
1.71% (68.45MiB / 3.906GiB)

CPU  
0.26%

SSH  
ssh ip172-18-0-6-cdlmqmf91rrg00bt0j2g@direct.labs.play-w

DELETE

EDITOR

Status: Downloaded newer image for uifd/ui-for-docker:latest  
docker.io/uifd/ui-for-docker:latest  
(model) (local) root@192.168.0.28 ~  
\$ docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
(model) (local) root@192.168.0.28 ~  
\$ docker run uifd/ui-for-docker  
2022/11/09 09:29:04 Unix socket /var/run/docker.sock does not exist  
(model) (local) root@192.168.0.28 ~  
\$ docker run  
"docker run" requires at least 1 argument.  
See 'docker run --help'.  
  
Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]  
  
Run a command in a new container  
(model) (local) root@192.168.0.28 ~  
\$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
ce2aa42d6ec392b6e58a18ee1f9508988f01eb06ff4a4db5206194357a8c9905k:/var/run/docker.sock uifd/ui-for-docker  
(model) (local) root@192.168.0.28 ~  
\$ docker image  
  
Usage: docker image COMMAND

03:37:12

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28  
node1

cdlmqmf9\_cdlmqf91rrg00bt0j50

IP

192.168.0.28

OPEN PORT

9000

Memory

1.65% (65.87MiB / 3.906GiB)

CPU

0.20%

SSH

ssh ip172-18-0-6-cdlmqmf91rrg00bt0j2g@direct.labs.play-w

DELETE

EDITOR

```

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@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
[node1] (local) root@192.168.0.28 ~
$ docker run uifd/ui-for-docker
2022/11/09 09:29:04 Unix socket /var/run/docker.sock does not exist
[node1] (local) root@192.168.0.28 ~
$ docker run
"docker run" requires at least 1 argument.
See 'docker run --help'.

Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container
[do]cker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
ce2aa42d6ec392b6e58a18cc1f9508988f01eb06ff4a4db5206194357a8c9908k:/var/run/docker.sock uifd/ui-for-docker
[node1] (local) root@192.168.0.28 ~
$

```

03:30:03

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28  
node1

cdlmqmf9\_cdlmqf91rrg00bt0j50

IP

192.168.0.28

OPEN PORT

9000

Memory

1.71% (68.48MiB / 3.906GiB)

CPU

1.03%

SSH

ssh ip172-18-0-6-cdlmqmf91rrg00bt0j2g@direct.labs.play-w

DELETE

EDITOR

```

[node1] (local) root@192.168.0.28 ~
$ docker images
REPOSITORY      TAG         IMAGE ID      CREATED        SIZE
uifd/ui-for-docker  latest     965940f98fa5  6 years ago    8.1MB
[node1] (local) root@192.168.0.28 ~
$

```

## Question 2:

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

FROM helloworld:latest

WORKDIR ~/Desktop/

ADD . helloworld/

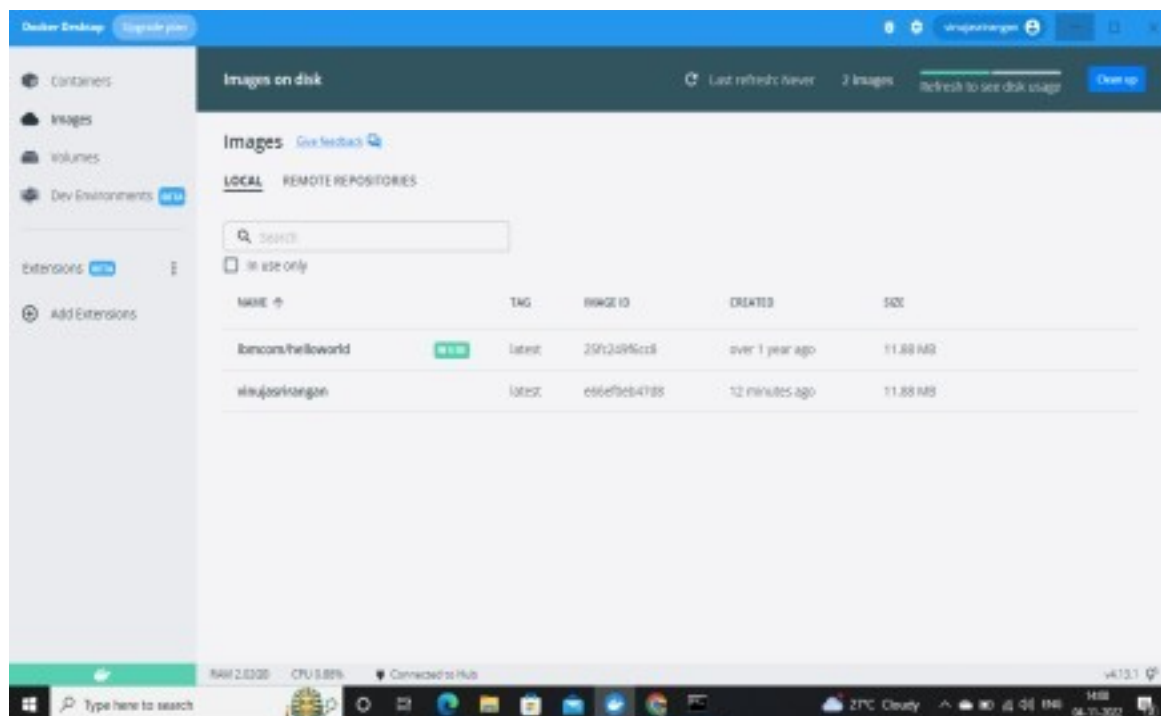
WORKDIR~/Desktop/htmlfile

RUN pip install -r

requirements RUN chmod +x

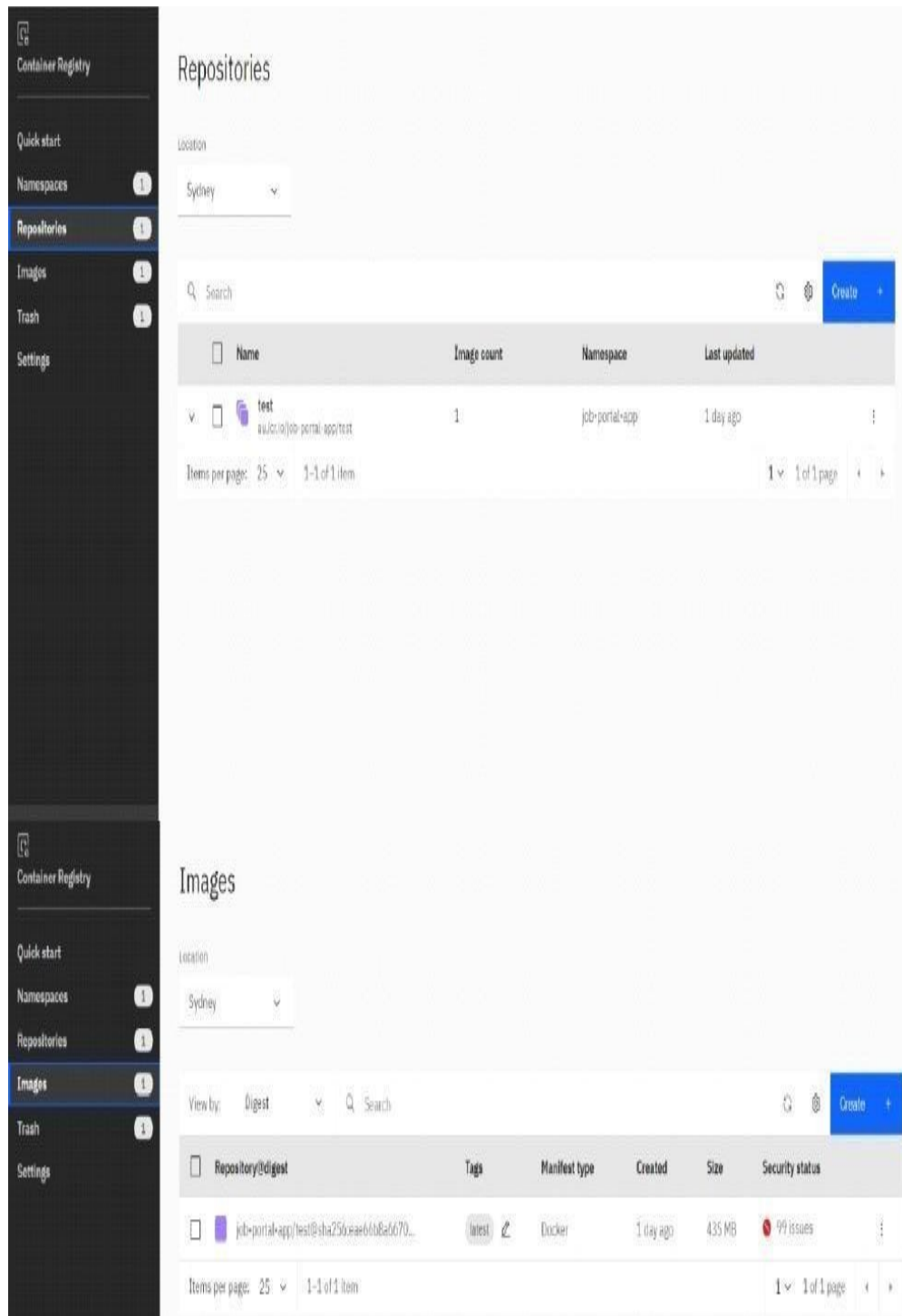
app.sh

CMD[“/bin/sh”,”app.sh”]



### Question 3:

Create a IBM container registry and deploy helloworld app or job portalapp



## QUESTION 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.

IBM Cloud

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Catalog /

Kubernetes cluster

Author: IBM Docs API docs

CreateAbout

Deliver your apps quicker across clouds with Red Hat OpenShift

Plan details

Learn more about the differences between plans in our docs.

Pricing plan

Free

You have already created your one free cluster

Ready to create more clusters? Choose the Standard cluster type.

Summary

United States

Kubernetes cluster

Worker node

Free

Free - 2 vCPUs 4GB RAM  
Virtual - shared  
Ubuntu 18

Total estimated cost

Free/mo

Additional charges for networking and bandwidth might apply.  
Actual monthly total will vary with tiered pricing.  
Estimate does not include costs for integrations.

Create

Add to estimate

IBM Cloud

Search resources and products...

Q Catalog Manage Gowtham E's Account

Clusters /

mycluster

Preparing master, workers... Expires in 30 days Add tags

Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Expires in 30 days:

Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.

Node status

1 of 1

Pending

Details

Add-on status

Error

Unknown

Details

Master status

Unknown

Docs

Ingress status

Pending

Docs

Details

Cluster ID

cdx0e3tf0jbu191kgtt0

Version

1.24.8\_1544

Infrastructure

Classic

Zones

Milan 01

Created

11/17/2022, 3:33 PM

Resource group

Image security enforcement

Enable

Node health

1 total nodes

Critical 0% Warning 0% Normal 0% Pending 100%

Worker node details

Networking

Service endpoint URL

Public enabling

Copy link

Help

Log in to your cluster

Deploy your app

Expose your app

Add storage to your app

Connect integrations

Install add-ons

Troubleshoot