

## ASSISGNMENT-4

ASSIGNMENT DATE	03 NOVEMBER 2022
Student Name	Dharchana.K
Student Roll Number	820419205015
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
[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
[ndocker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
ce2aa42d6ec392b6e58a18ce1f9508988f01eb06ff4a4db5206194357a8c9905k:/var/run/docker.sock uifd/ui-for-docker
[node1] (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:fe371ff5a69549269b24073a5ab1244dd4c0b034cbadf244870572150b1cb749
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
[node1] (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
ce2aa42d6ec392b6e58a10ce1f9508988f01eb06ff4a4db5206194357a8c9905ti/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/

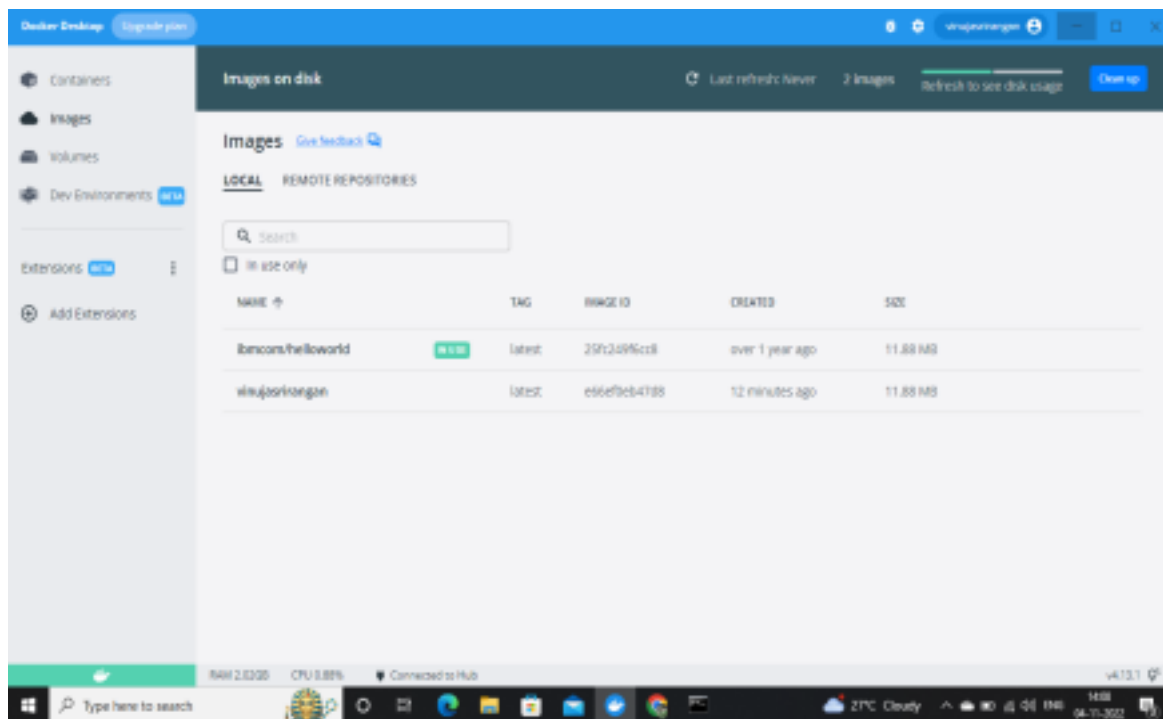
WORKDIR~/Desktop/htmlfile

RUN pip install -r

requirements RUN chmod +x

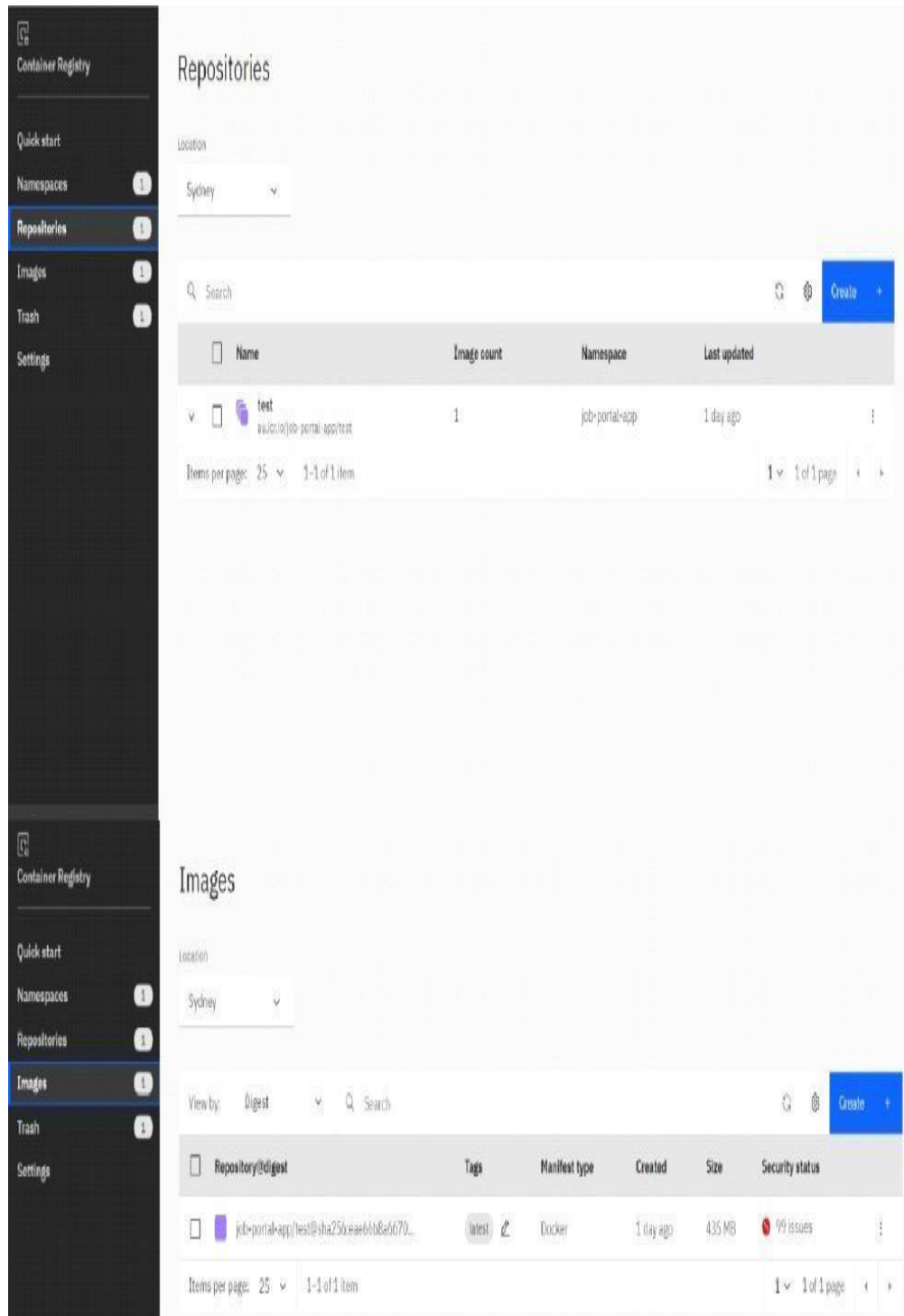
app.sh

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 Catalog / Kubernetes cluster

Author: IBM • Docs • API docs

Create About

Plan details

Learn more about the differences between plans in our [docs](#).

Pricing plan

Standard

Infrastructure

Choose which network and compute environment to run your cluster on. [Learn more about the differences.](#)

Classic Run your cluster with native subnet and VLAN networking on our classic infrastructure.

VPC Create a fully customizable, software-defined virtual network with superior isolation using IBM Cloud VPC.

Summary United States

Kubernetes cluster

Worker nodes \$2.65/hr  
63c-4x16 - 4 vCPUs 16GB RAM  
Virtual - shared  
Ubuntu 18

Multizone load balancer \$0.02/hr  
Multizone clusters require a cross-zone load balancer.

Total estimated cost \$1,919.52/mo

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

Upgrade to create

Add to estimate

Clusters / mycluster-free Normal 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 Normal Details

Add-on status 0 of 0 Normal Details

Master status Normal Docs

Ingress status Unknown Docs

Details

Cluster ID cdd9137f0hztksau52o0

Version 1.23.13\_1550

Infrastructure Classic

Zones Milan 01

Created 27/10/2022, 7:37 pm

Resource group Default

Image security enforcement Enable

