

ASSISGNMENT-4



ASSIGNMENT DATE	03 NOVEMBER 2022
Student Name	B.Jayasridhara
Student Roll Number	820419205025
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/

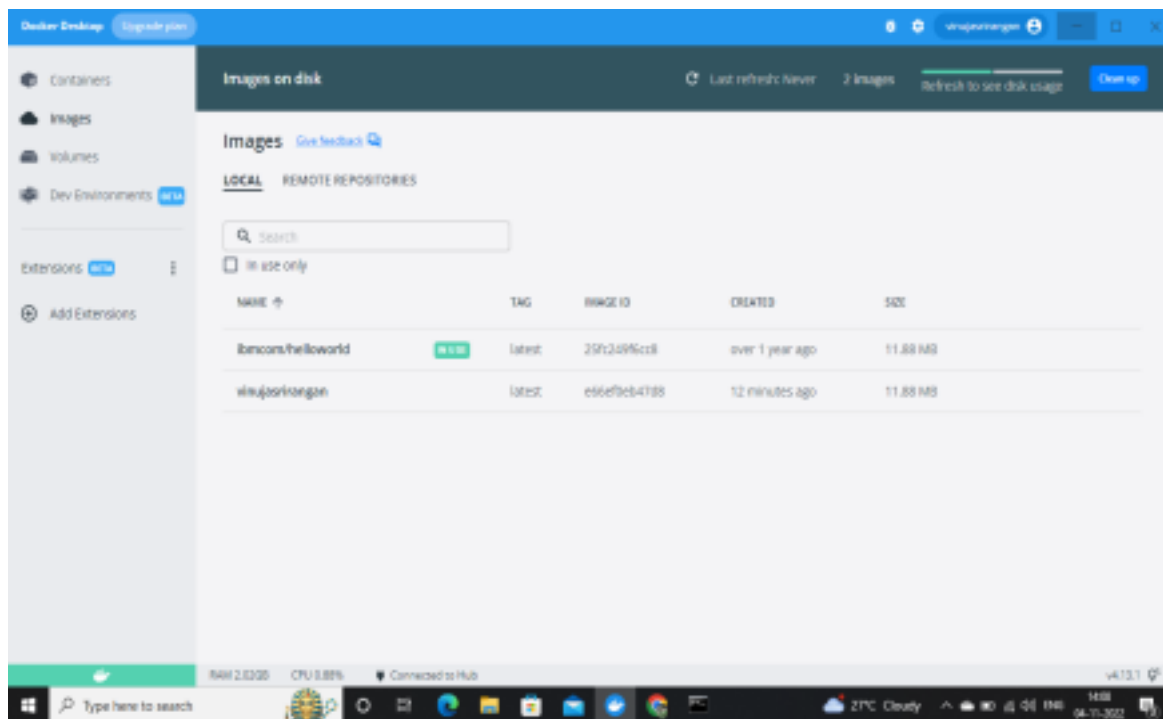
WORKDIR~/Desktop/htmlfile

RUN pip install -r

requirements RUN chmod +x

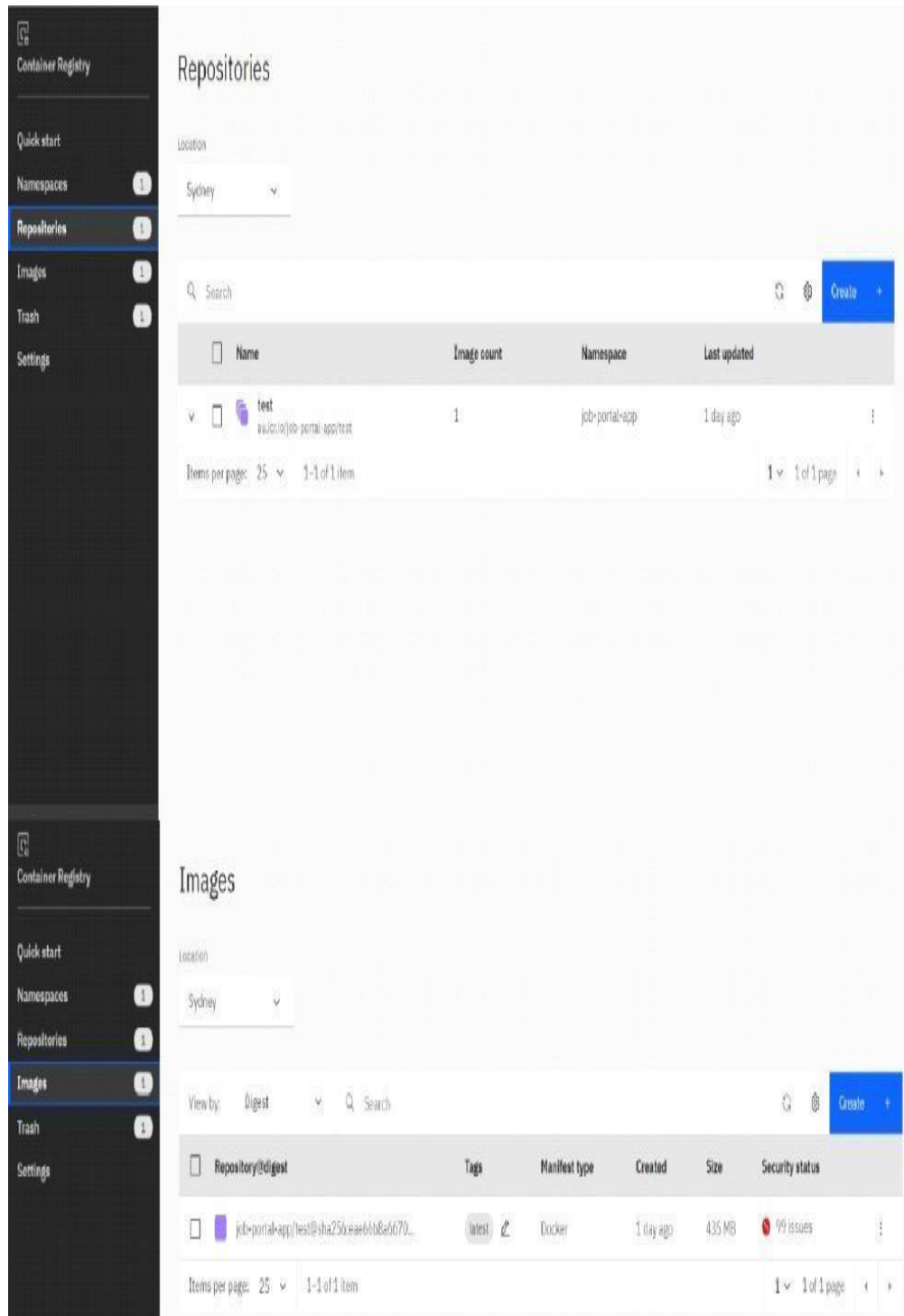
app.sh

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

ASSIGNMENT 4.pdf app.cpython-310 (4).pyc app.cpython-310 (3).pyc app.cpython-310 (2).pyc app.cpython-310 (1).pyc app.cpython-310.pyc Show all

Type here to search

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

