

## Assignment - 4



Assignment Date	9 September 2022
Student Name	S.kaavya
Student Roll Number	111519205017
Maximum Marks	2 Marks

### Question 1:

Pull an image from docker hub and run it in docker playground.

03:58:07

CLOSE SESSION

Instances  

+ ADD NEW INSTANCE

192.168.0.8  
node1


cdrn12e3\_cdrn1eu0qau000ahcrqg


IP  
192.168.0.8

OPEN PORT 80

Memory  
2.56% (102.5MiB / 3.906GiB)

CPU  
0.62%

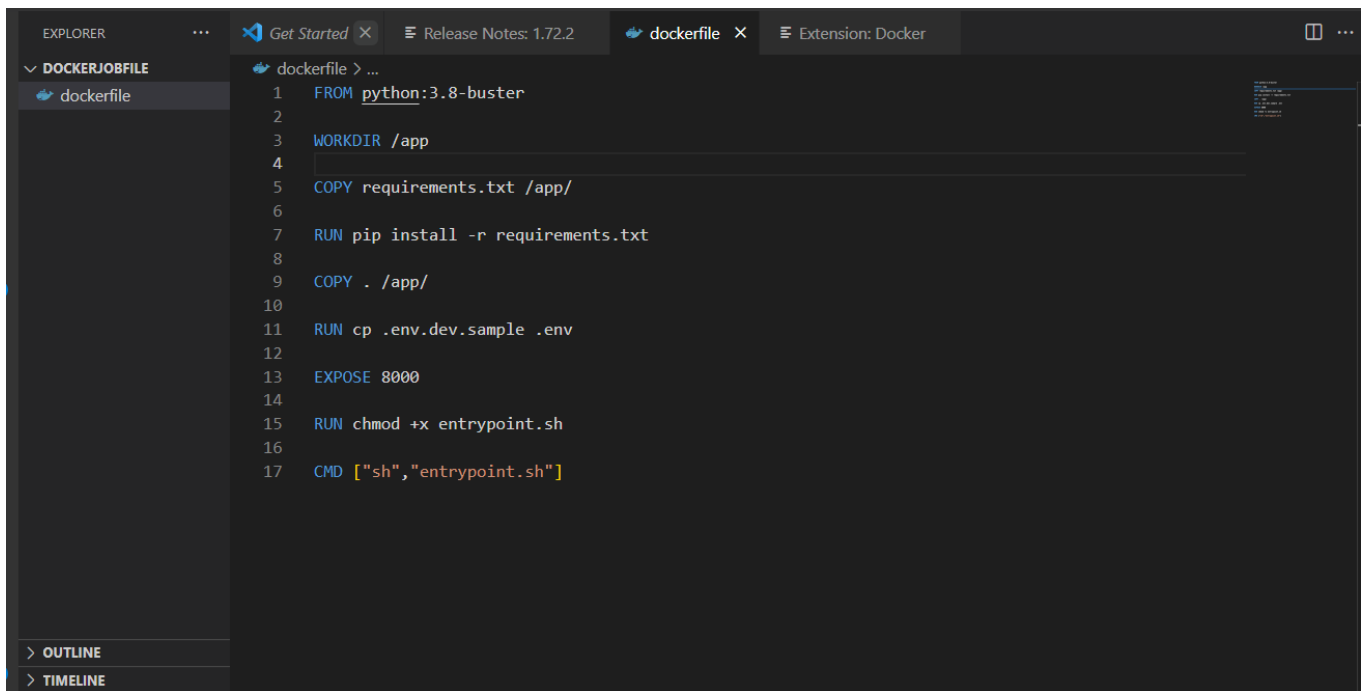
SSH  
ssh ip172-18-0-46-cdrn12e3tccg009i27r0@direct.labs.play-

DELETE  EDITOR

```
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867cba5fcbd: Pull complete
4b639e65cb3b: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
952163e321b6ad57afdd7d7b5f4609d8fcb9220b3b5d9165fc13af58206f8d06
[node1] (local) root@192.168.0.8 ~
$
```

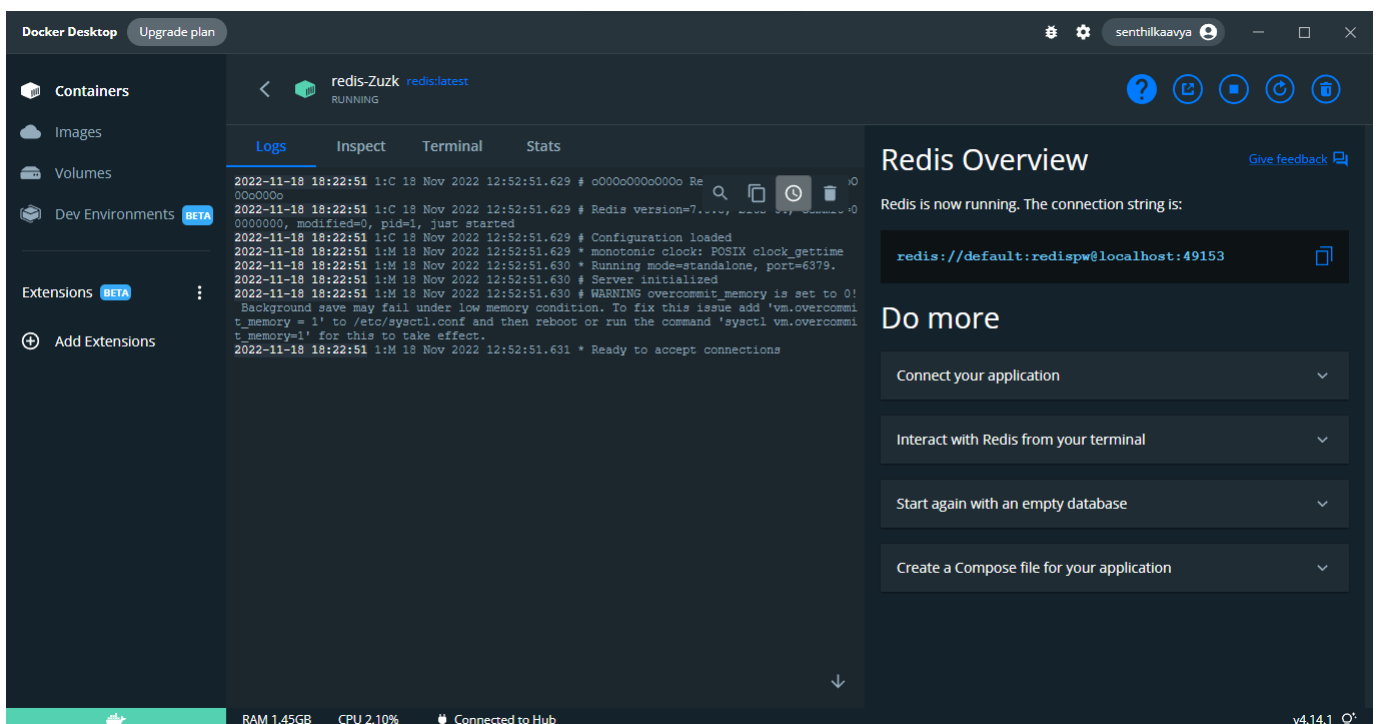
## Question 2:

Create a docker file for the jobportal application and deploy it in Docker desktop application.



```
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

The screenshot shows a code editor with a Dockerfile. The file is named 'dockerfile' and is located in the 'DOCKEROBJFILE' directory. The Dockerfile contains 17 lines of instructions: FROM python:3.8-buster, WORKDIR /app, COPY requirements.txt /app/, RUN pip install -r requirements.txt, COPY . /app/, RUN cp .env.dev.sample .env, EXPOSE 8000, RUN chmod +x entrypoint.sh, and CMD ["sh", "entrypoint.sh"]. The editor also shows a sidebar with 'OUTLINE' and 'TIMELINE' tabs.



Docker Desktop

Upgrade plan

Containers

Images

Volumes

Dev Environments

BETA

Extensions

BETA

+

Add Extensions

Containers

Give feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another.

Learn more

Only show running containers

3358aea34e8c

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<div></div>	<div>redis-Zuzk</div> <div>fe5013e52472</div>	<div>redis:latest</div>	Running	<div>49153:6379</div>	9 minutes ago	<div></div> <div></div> <div></div>
<div></div>	<div>infallible_visvesvaraya</div> <div>da8b49e21d01</div>	<div>redis:latest</div>	Running		2 minutes ago	<div></div> <div></div> <div></div>

Showing 2 items

RAM 1.45GB

CPU 5.70%

Connected to Hub

v4.14.1

Docker Desktop

Upgrade plan

Containers

Images

Volumes

Dev Environments

BETA

Extensions

BETA

+

Add Extensions

Images on disk

Last refresh: 2 minutes ago

1 Images

116.95 MB total size

116.95 MB / 116.95 MB in use

Clean up

Images

Give feedback

LOCAL

REMOTE REPOSITORIES

Search

In use only

NAME	TAG	IMAGE ID	CREATED	SIZE
redis	latest	3358aea34e8c	3 days ago	116.95 MB

RAM 1.45GB

CPU 4.38%

Connected to Hub

v4.14.1

## OUTPUT:

local:1234/en/search/?position=&location=Bangladesh

HOME JOBS CREATE RESUME/CV ABOUT US REGISTER LOGIN LANGUAGE

FIND A JOB YOU WILL LOVE

POSITION LOCATION

Position you are looking for Any particular location? Q

WE HAVE FOUND 10 JOBS

	<b>LEARN LARAVEL WITH VUE2</b> ggnhfh	Dhaka, Bangladesh	Posted 3 years, 6 months
	<b>SOFTWARE ENGINEER</b> Reve System	Dhaka, Bangladesh	Posted 3 years, 6 months

## Question 3:

Create a IBM container registry and deploy helloworld app or jobportapp.

## IBM CONTAINER REGISTRY DEPLOYMENT:

IBM Cloud

Search resources and products...

Catalog Manage Kaavya S's Account

Container Registry

Quick start

Namespaces 1

Repositories 0

Images 0

Trash 0

Settings

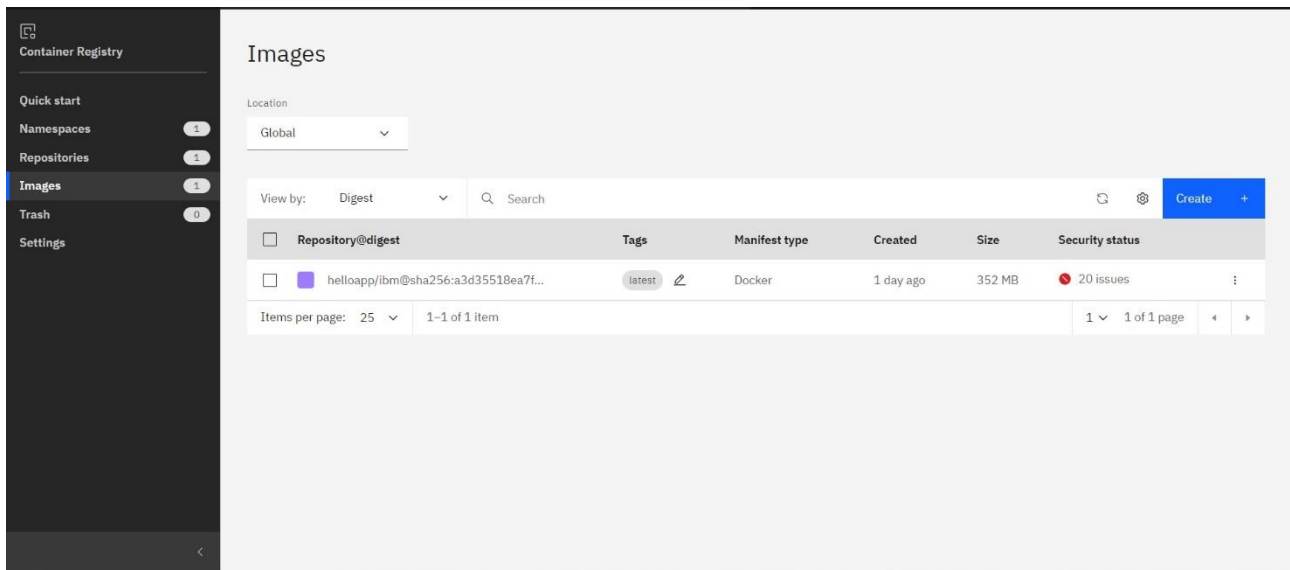
Namespaces

Location: Global

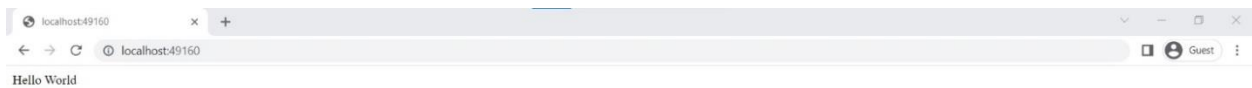
Resource group: Filter... Search

Name	Resource group	Repository count	Image count	Retention policy
helloworldjob	Default	0	0	

Items per page: 25 1-1 of 1 item



OUTPUT:



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.

Creating kubernetes cluster in IBM cloud and exposing nodeport:

Clusters /
mycluster-free
Normal
Expires in 29 days
Add tags
Help
Kubernetes dashboard
Actions...

Overview
Worker nodes
Worker pools
DevOps
NEW

Pool: Filter...
Search
Add

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input checked="" type="checkbox"/>	0000008c	Normal	default	Milan 01	10.144.187.51	159.122.179.68	1.23.12_1549

Items per page: 25
1-1 of 1 item
1
1 of 1 page

Output:

All templates - Django Jobs
159.122.179.68:32588/en/templates
Guest

HOME
JOBS
CREATE RESUME/CV
ABOUT US
REGISTER
LOGIN
LANGUAGE

## CHOOSE A TEMPLATE FOR YOUR RESUME/CV

ALL TEMPLATES
RESUMES
CV

FREE

Resume 1

BUILDER

FREE

Resume 2

BUILDER

FREE

CV

BUILDER