

Assignment -4

Student Name	Lokesh V
Student Roll Number	737819ECR094
Maximum Marks	2 Marks

Question-1:

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

03:58:21

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28
node1

cdjq86f9_cdjq87v91rrg00fv70og

IP
192.168.0.28

OPEN PORT

Memory
1.23% (49.16MiB / 3.906GiB)

CPU
0.57%

SSH
ssh ip172-18-0-38-cdjq86f91rrg00fv70o0@direct.labs.play-v

DELETE

EDITOR

```
##### WARNING!!!! #####
# This is a sandbox environment. Using personal credentials
# is HIGHLY! discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The FWD team.
#####

(node1) (local) root@192.168.0.28 ~
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
(node1) (local) root@192.168.0.28 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
(node1) (local) root@192.168.0.28 ~
$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
```

Containers

Images

Volumes

Dev Environments

Extensions

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

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	bold_shtern 3111c34b95db	docker/getting-started:latest	Running	80:80	35 minutes ag	
<input type="checkbox"/>	stole_wozniak dc36997d169e	<none><none>	Running	3000:3000	34 minutes ag	
<input type="checkbox"/>	quizzical_visvesvaraya 275b013f9069	test-boot:latest	Running	5000:80	51 seconds ag	

Showing 3 items

RAM 2.15GB CPU 0.11% Connected to Hub v4.13.0

Question-2:

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

```
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"]
```

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

Containers

[Give feedback](#)

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☐ Only show running containers

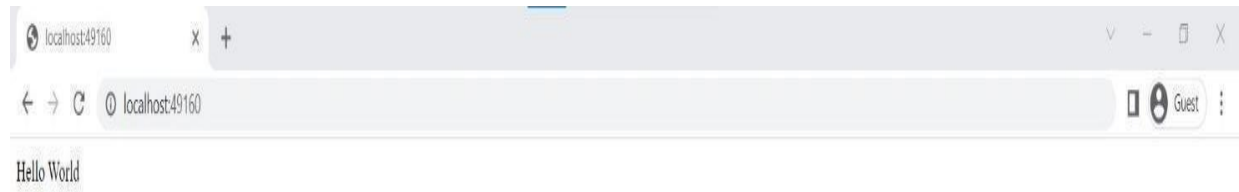
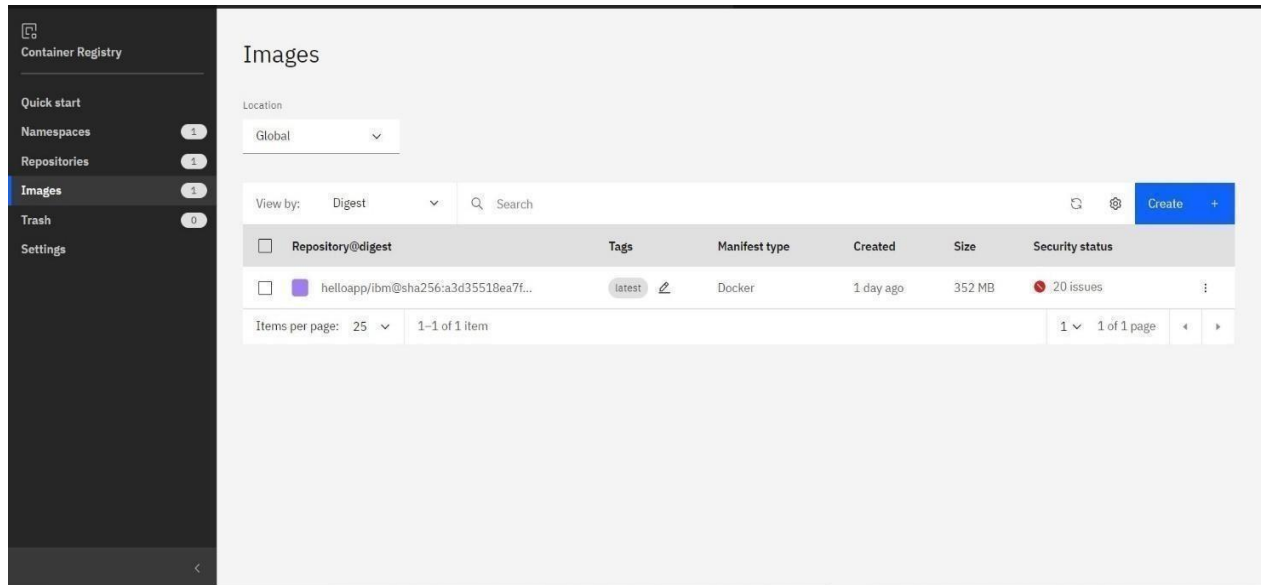
<input type="checkbox"/>	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	<div>agitated_neumann</div> <div>918d20882039</div>	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080		<div><div></div><div></div><div></div></div>
<input type="checkbox"/>	<div>jolly_turing</div> <div>b62c0712bdd3</div>	jobportalapplication:latest	Running	1234:8000	4 minutes ago	<div><div></div><div></div><div></div></div>

Showing 2 items

RAM 3.06GB CPU 0.57% Connected to Hub v4.13.0

Question-3:



Create a IBM container registry and deploy hello world app or jobportalapp.




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.

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 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 