

Assignment - 4



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|---------------------|---------------|
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Question 1:

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

03:57:32

CLOSE SESSION

Instances  

+ ADD NEW INSTANCE

192.168.0.8
node1


cddvkism0_cddvkvm0qau000a07j5g

IP
192.168.0.8


OPEN PORT

Memory
1.24% (49.52MiB / 3.906GiB)

CPU
0.31%

SSH
ssh ip172-18-0-22-cddvkism0qau000a07j50@direct.labs.pla 

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 PwD team.
#####
[node1] (local) root@192.168.0.8 ~
$ 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@192.168.0.8 ~
$ docker run hello-world
```

Activate Windows
Go to Settings to activate Windows.

03:57:05

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8
node1

cddvksm0_cddvkvm0qau000a07j5g

IP
192.168.0.8

OPEN PORT

Memory
1.26% (50.45MiB / 3.906GiB)

CPU
0.39%

SSH
ssh ip172-18-0-22-cddvksm0qau000a07j50@direct.labs.pla

DELETE

EDITOR

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)

3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
\$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
<https://hub.docker.com/>

For more examples and ideas, visit:
<https://docs.docker.com/get-started/>

[node1] (local) root@192.168.0.8 ~
\$

Activate Windows
Go to Settings to activate Windows.

Question 2:

Create a docker file for the job portal 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"]

```

DEPLOYMENT OF JOBPORTAL APPLICATION:

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

| | 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 | | ▶ ⋮ 🗑 |
| <input type="checkbox"/> | <div>jolly_turing</div> <div>b62c0712bdd3</div> | jobportalapplication:latest | Running | 1234:8000 | 4 minutes ago | ■ ⋮ 🗑 |

Showing 2 items

RAM 3.06GB

CPU 0.57%

Connected to Hub

v4.13.0

OUTPUT:

All jobs - Django Jobs

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

Guest

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

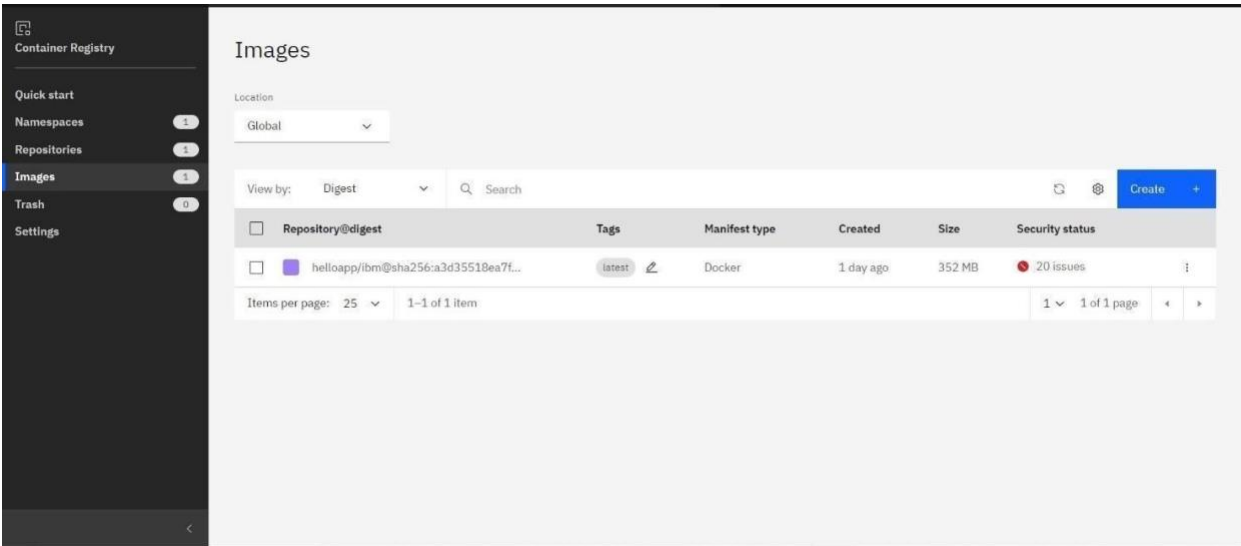
WE HAVE FOUND 10 JOBS

| | | | |
|--|--------------------------------|---------------------|--------------------------|
|  ggnhfh | LEARN LARAVEL WITH VUE2 | 📍 Dhaka, Bangladesh | Posted 3 years, 6 months |
|  Reve System | SOFTWARE ENGINEER | 📍 Dhaka, Bangladesh | Posted 3 years, 6 months |

Question 3:

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

IBM CONTAINER REGISTRY DEPLOYMENT:



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:

Output:

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 | <div>Normal</div> | default | Milan 01 | 10.144.187.51 | 159.122.179.68 | 1.23.12_1549 |

Items per page: 25

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1

1 of 1 page

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