

## ASSISGNMENT-4

|                 |                  |
|-----------------|------------------|
| ASSIGNMENT DATE | 03 NOVEMBER 2022 |
| TEAM ID         | PNT2022TMID30006 |
| MAXIMUM MARK    | 2 Marks          |
| TOPIC           | Cloud Computing  |

### QUESTION 1:

Pull an image from docker hub and run it is docker playground

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\VINUJA>docker pull ibmcom/helloworld
Using default tag: latest
latest: Pulling from ibmcom/helloworld
Digest: sha256:250026285188ad3b74eee456cd2ec56c7a841e45054c8cd4422bf0a800686978
Status: Image is up to date for ibmcom/helloworld:latest
docker.io/ibmcom/helloworld:latest

C:\Users\VINUJA>docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
ibmcom/helloworld   latest          25fc249f6cc8   15 months ago   11.9MB

C:\Users\VINUJA>docker pull ibmcom/helloworld
Using default tag: latest
latest: Pulling from ibmcom/helloworld
Digest: sha256:250026285188ad3b74eee456cd2ec56c7a841e45054c8cd4422bf0a800686978
Status: Image is up to date for ibmcom/helloworld:latest
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C:\Users\VINUJA>docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
ibmcom/helloworld   latest          25fc249f6cc8   15 months ago   11.9MB

C:\Users\VINUJA>docker run -it -d ibmcom/helloworld
75a7f37b4c29fea3124ea3cbfd25d1e721230ee78632460c160e65c054a22f48

C:\Users\VINUJA>
C:\Users\VINUJA>docker ps -a
CONTAINER ID   IMAGE             COMMAND                  CREATED        STATUS        PORTS   NAMES
75a7f37b4c29   ibmcom/helloworld "/bin/sh -c /hellowo..." 24 seconds ago Up 15 seconds          affectionate_raman

C:\Users\VINUJA>docker -it 75a7f37b4c29
unknown shorthand flag: 'i' in -it
See 'docker --help'.

Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
  --config string      Location of client config files (default
                        "C:\Users\VINUJA\docker")
```

## Question 2:

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

```
FROM helloworld:latest
```

```
WORKDIR ~/Desktop/
```

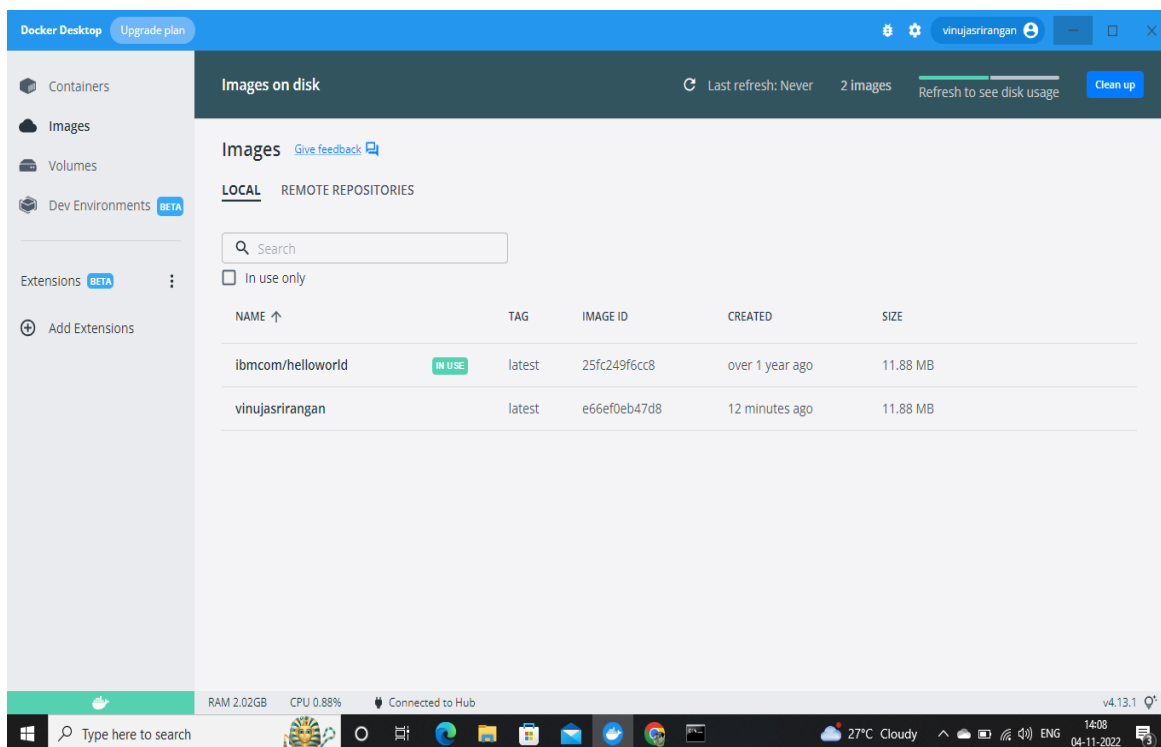
```
ADD . helloworld/
```

```
WORKDIR~/Desktop/htmlfile
```

```
RUN pip install -r requirements
```

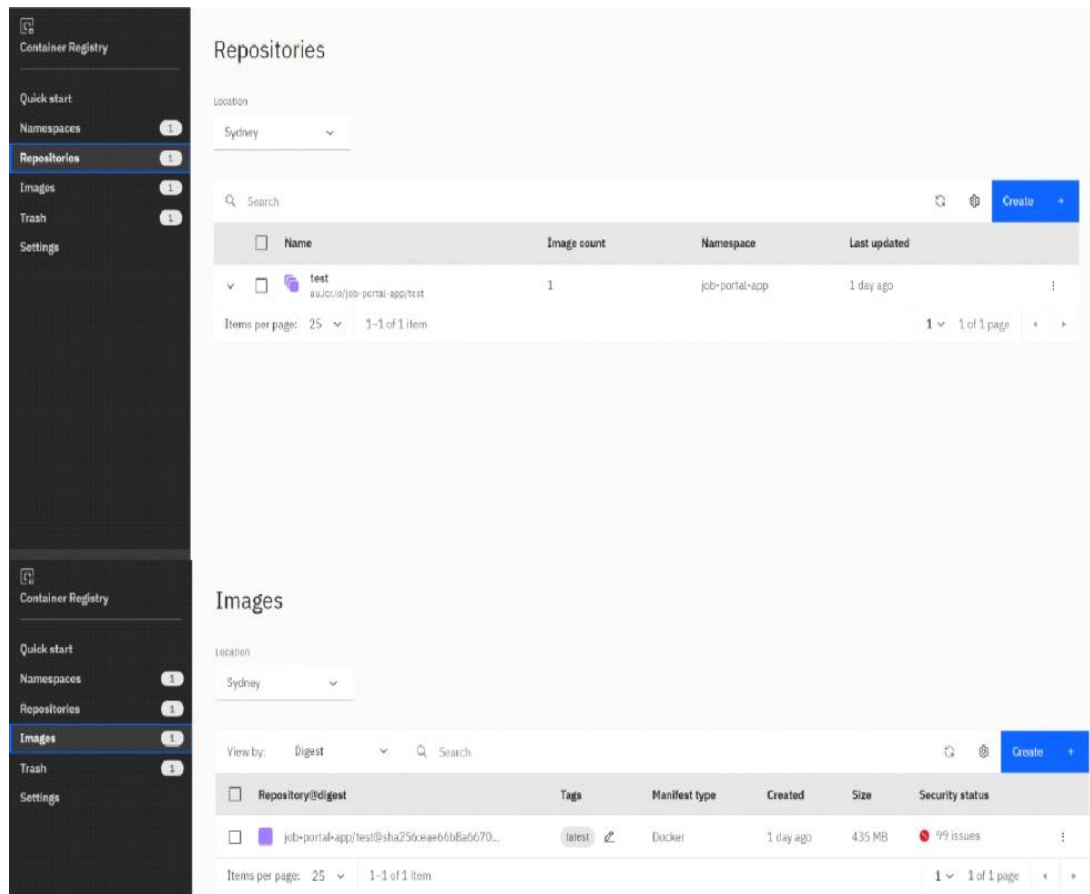
```
RUN chmod +x app.sh
```

```
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.

**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

cdd9137f0ehzksau52o0

Version

1.23.13\_1550

Infrastructure

Classic

Zones

Milan 01

Created

27/10/2022, 7:37 pm

Resource group

Default

Image security enforcement

[Enable](#)