

ASSIGNMENT-4

ASSIGNMENT DATE	5 th NOVEMBER
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TEAM NAME	DAREDEVILS
MARKS	2 marks

Question 1:

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

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:51:49, a 'CLOSE SESSION' button, and a list of instances. The main area displays the instance 'cdmh0v79_cdmh2c63tccg009qdfd0' with its IP address 192.168.0.13, memory usage (1.24%), and CPU usage (0.19%). Below this, there's a terminal window showing the following commands and output:

```
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.
#
[cdmh0v79_cdmh2c63tccg009qdfd0] (local) root@192.168.0.13 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa03e786c97f07ef34423fcccceec2398ec8a5759259f94d99078f264e9d7af
Status: Downloaded newer image for hello-world:latest
[cdmh0v79_cdmh2c63tccg009qdfd0] (local) root@192.168.0.13 ~
$ 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:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
```

The screenshot shows the labs.play-with-docker.com interface. On the left, there's a sidebar with a clock showing 03:49:20, a 'CLOSE SESSION' button, and a list of instances. The main panel displays details for an instance named 'cdmh0v79_cdmh2c63tccg009qdfd0', including its IP (192.168.0.13), memory usage (1.22%), and CPU usage (0.13%). Below this, there's a terminal window showing the output of the command 'docker run hello-world'. The output includes a 'Hello from Docker!' message and a list of steps explaining how Docker works.

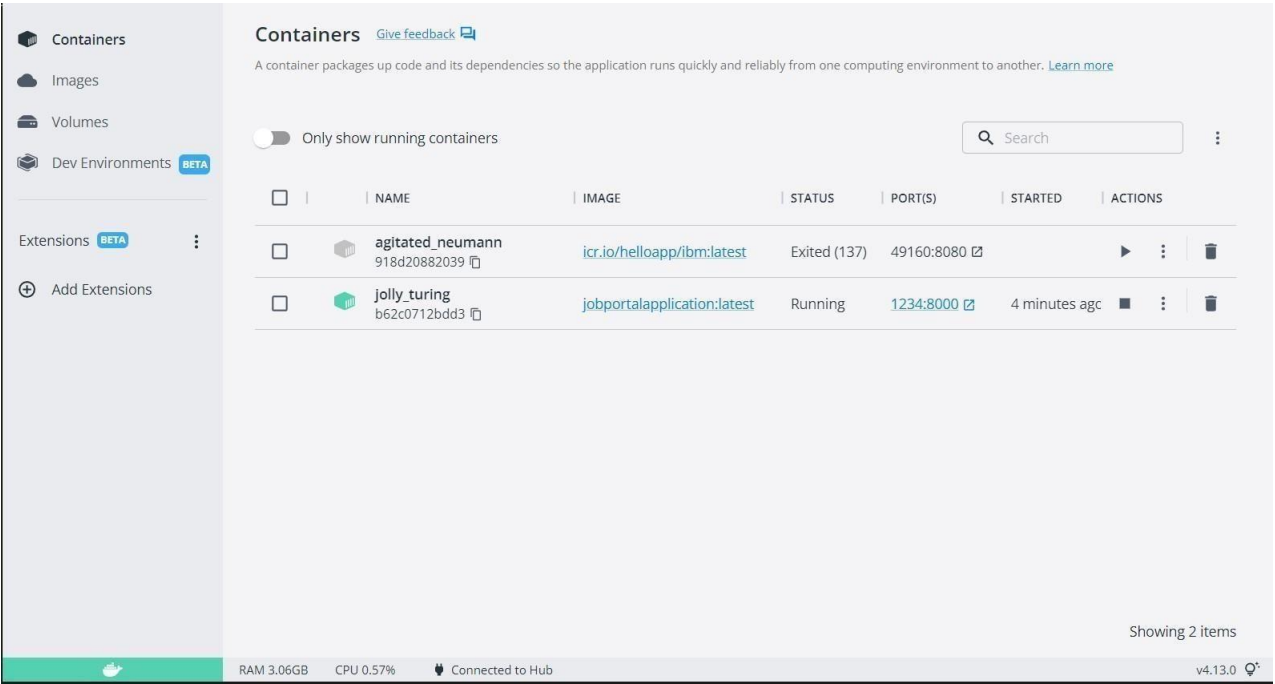
Question 2:

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

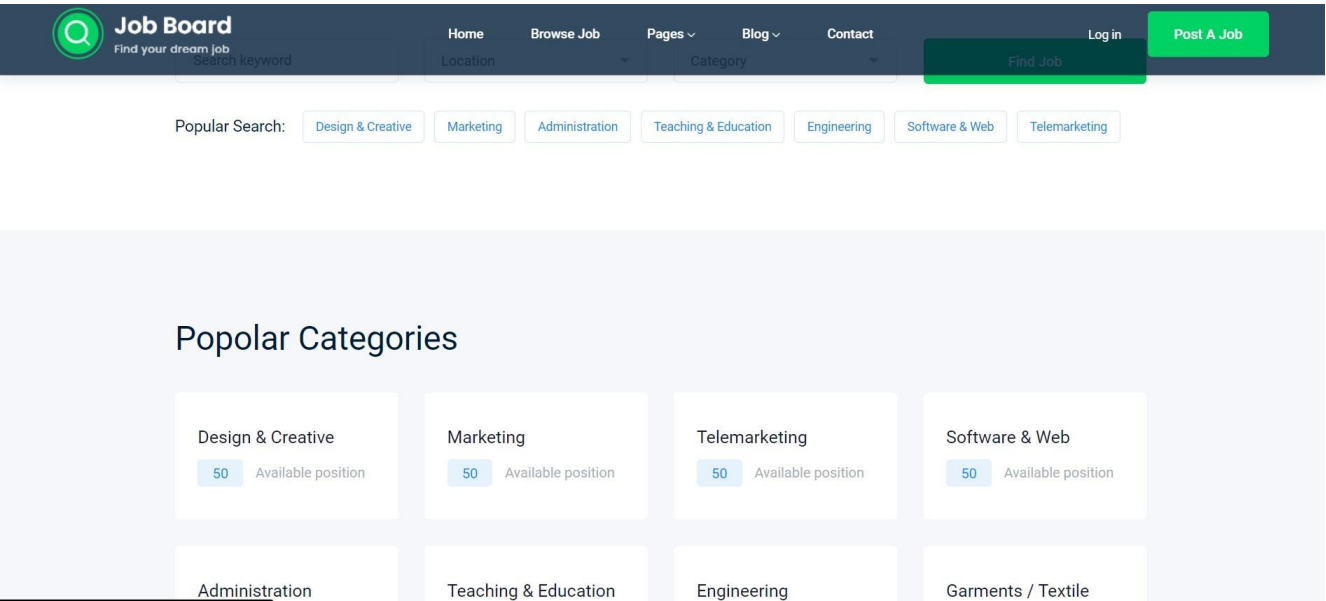
DOCKER FILE:

```
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:



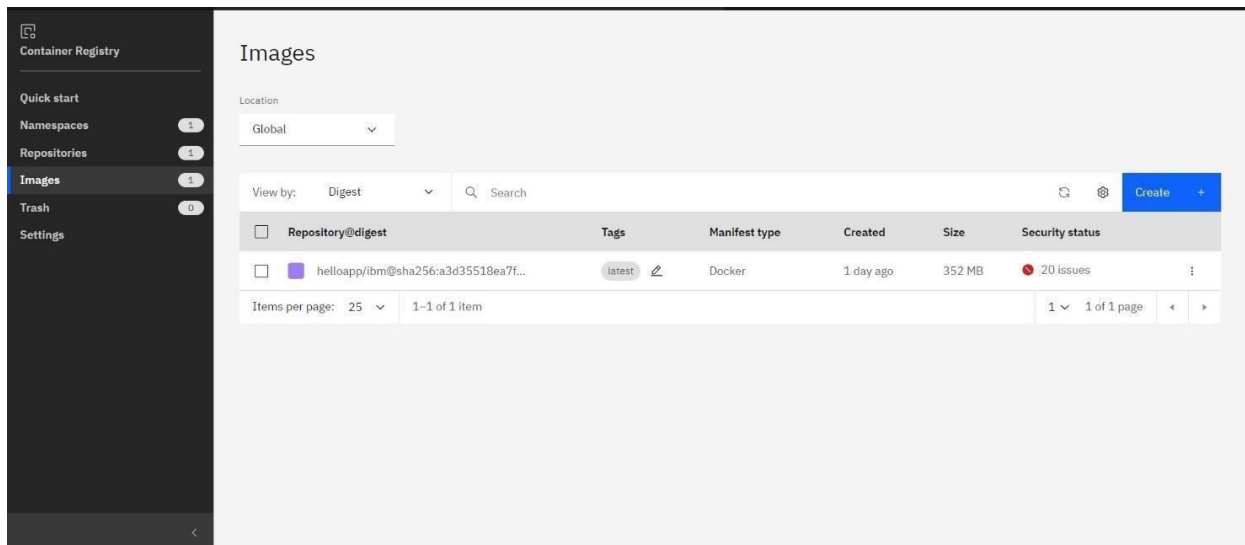
OUTPUT:



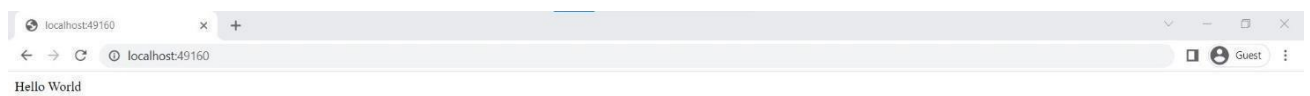
Question 3:

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

CONTAINER REGISTRY DEPLOYMENT:



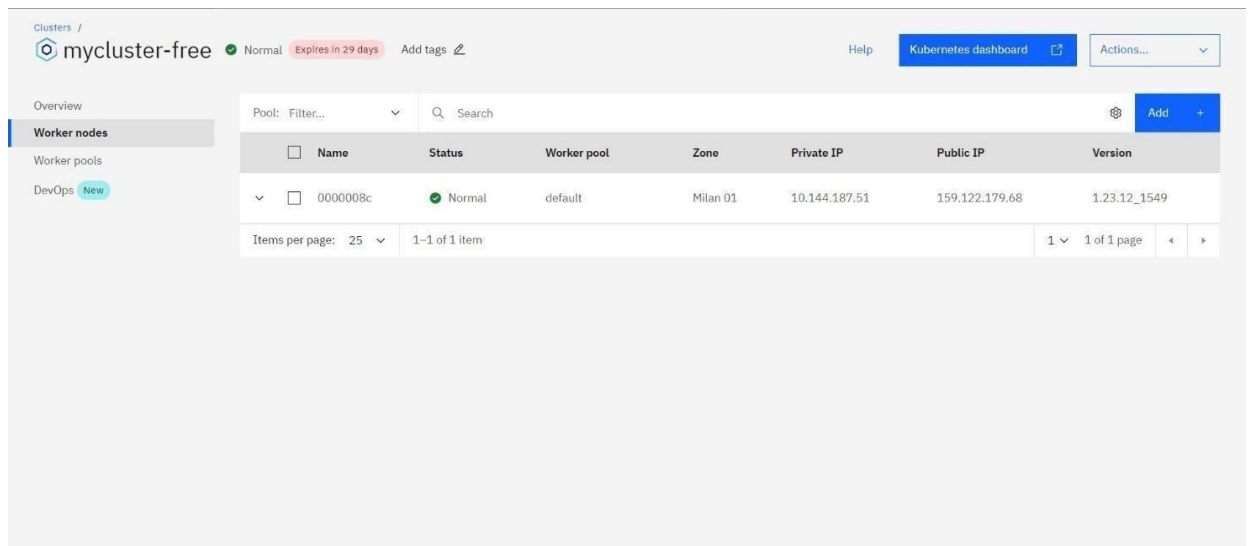
OUTPUT:



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:



OUTPUT:

