

Assignment - 4

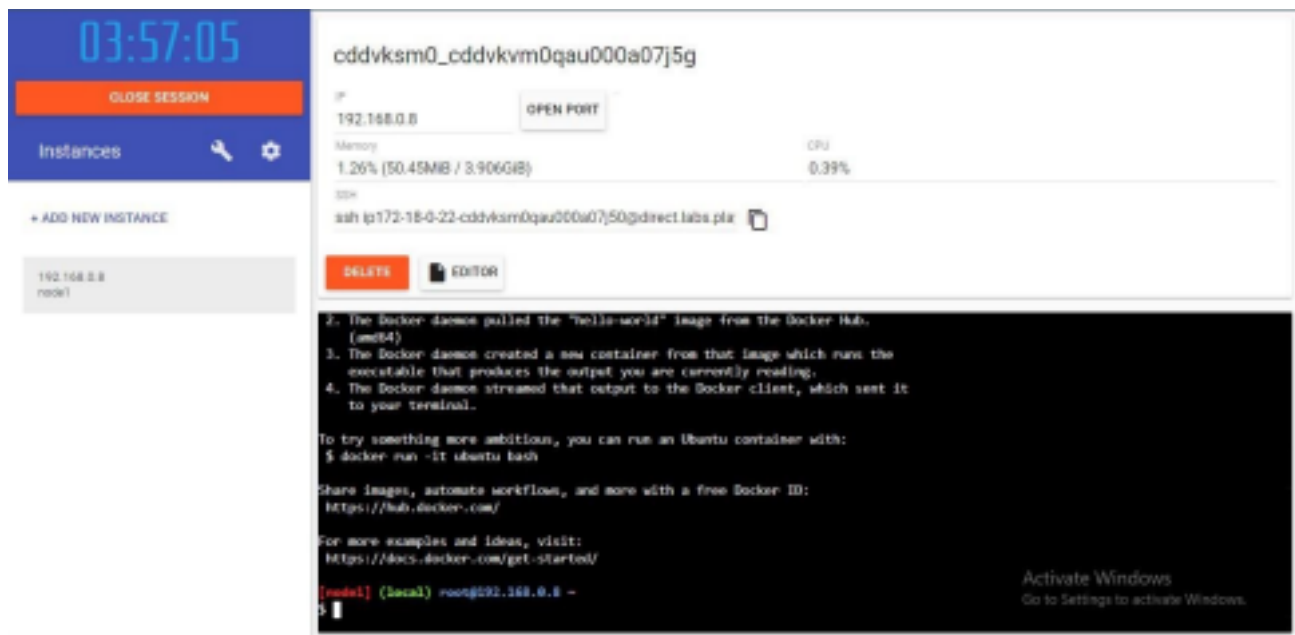
Assignment Date	7 NOVEMBER 2022
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Project	Personal Expense Tracker

Question 1:

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

The screenshot displays the Docker Playground interface. On the left, a sidebar shows a timer at 03:57:32, a 'CLOSE SESSION' button, and a list of instances with one instance named '192.168.0.8' in a 'DOWN' state. The main area shows the details of the selected instance, including its ID 'cddvkism0_cddvkvm0qau000a07j5g', IP '192.168.0.8', memory usage '1.24% (49.52MB / 3.906GB)', and CPU usage '0.31%'. Below this, there are 'DELETE' and 'EDITOR' buttons. The terminal window shows a warning message and a series of commands executed to pull and run the 'hello-world' Docker image. The output shows the image being pulled from the Docker library and then running successfully, displaying the 'Hello from Docker!' message. An 'Activate Windows' watermark is visible in the bottom right corner of the terminal area.

```
WARNING!!!!
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The PMD team.
=====
[root@localhost ~]# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
20b29710123e: Pull complete
Digest: sha256:c38fba777aefabed47a671ab1e3e0d05414477c951ab1a6f352a86034245fe7
Status: Downloaded newer image for hello-world:latest
[root@localhost ~]# docker run hello-world
Hello from Docker!
```



Question 2:

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

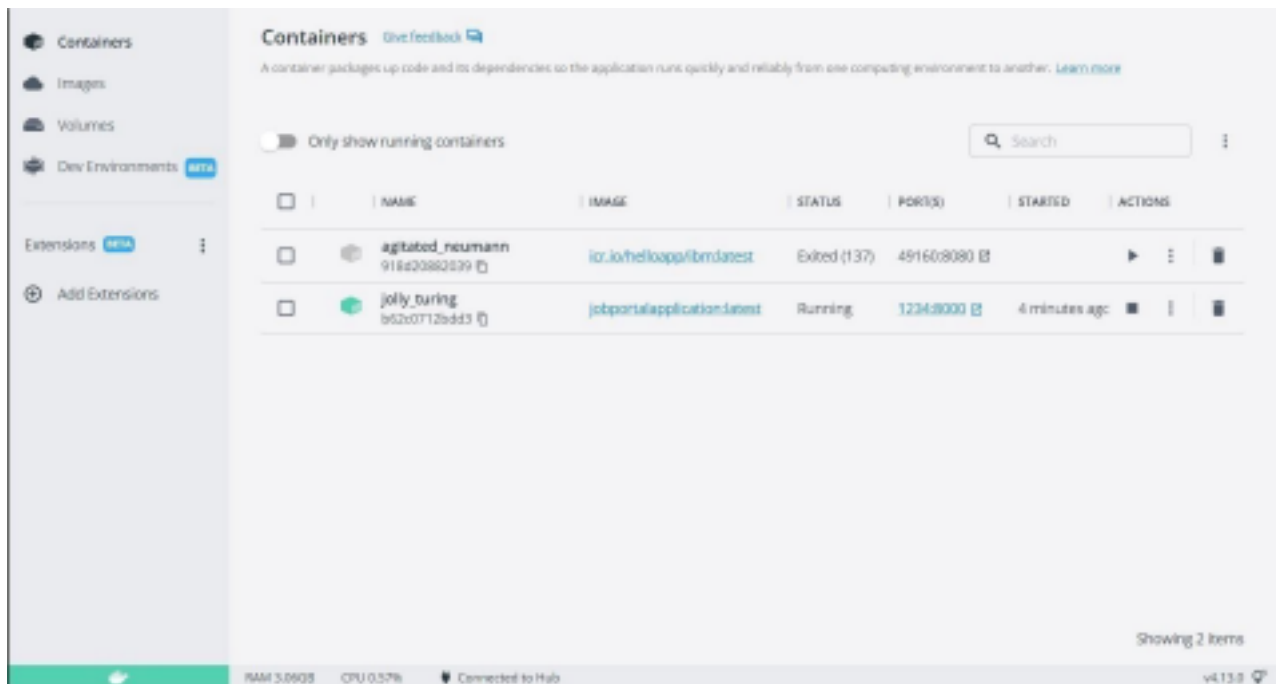
desktopapplication. DOCKER FILE:

```

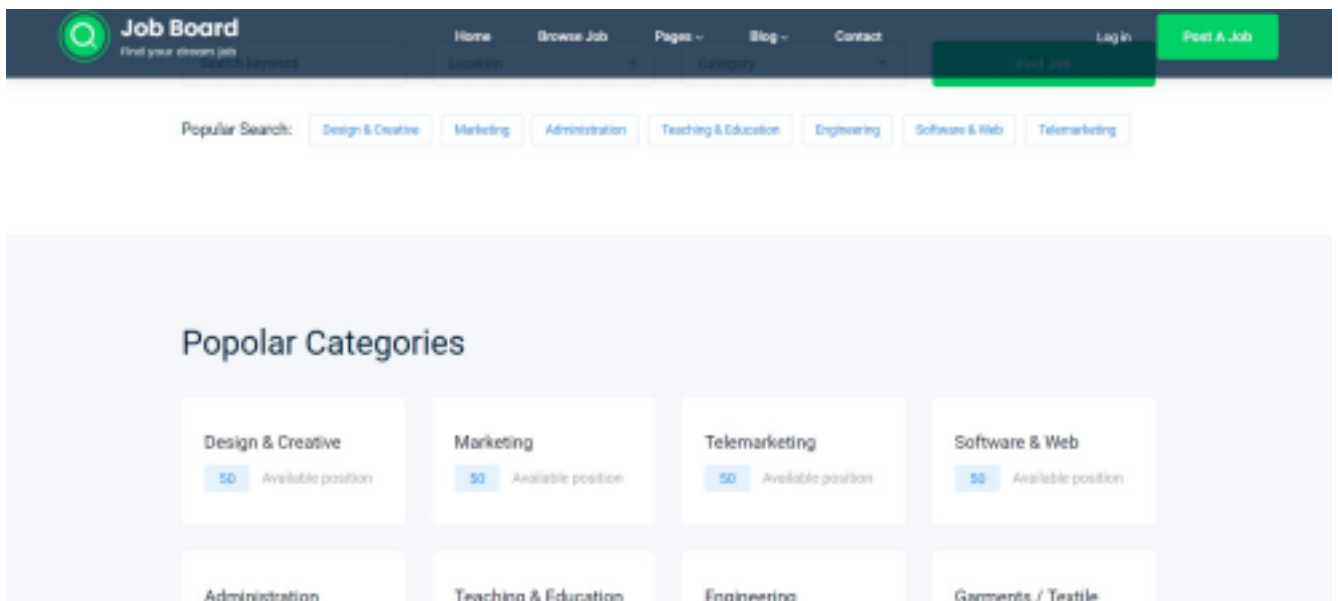
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]

```

DEPLOYMENT OF JOBPORTAL APPLICATION:



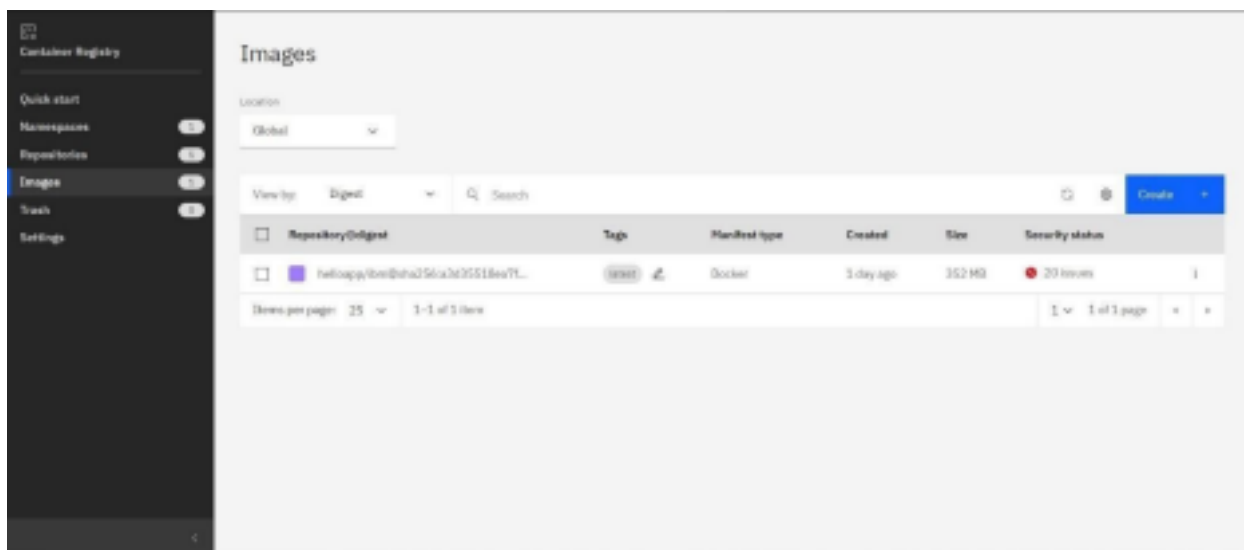
OUTPUT:



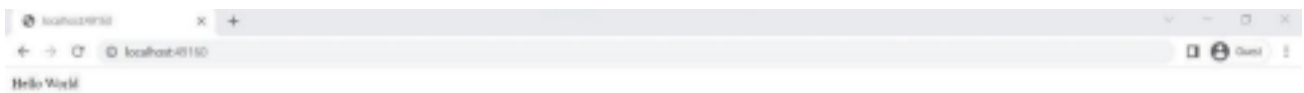
Question 3:

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:

