

ASSIGNMENT 4

Team Batch No: B6-M2E

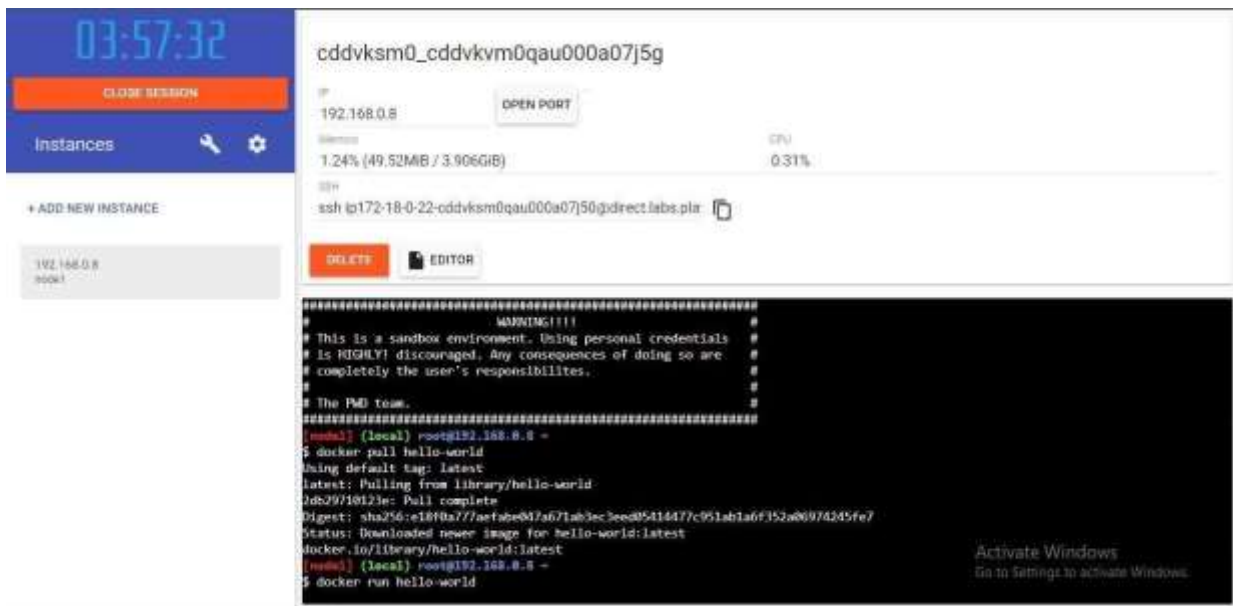
TEAM MEMBERS

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TEAM ID: PNT2022TMID12619

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 including '192.168.0.8 root'. The main panel shows the instance ID 'cddvksm0_cddvkvm0qau000a07j5g' and its IP '192.168.0.8'. Below this, a terminal window shows the following commands and output:

```
[root@] (local) root@192.168.0.8 -  
$ docker pull hello-world  
Using default tag: latest  
latest: Pulling from library/hello-world  
d8b29718123e: Pull complete  
Digest: sha256:e189ba77aefab047a671ab3ec3eed95414477c951ab1a6f352a06974245fe7  
Status: Downloaded newer image for hello-world:latest  
docker.io/library/hello-world:latest  
[root@] (local) root@192.168.0.8 -  
$ docker run hello-world
```

The terminal output also includes a warning message: '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.' and an 'Activate Windows' watermark in the bottom right corner.



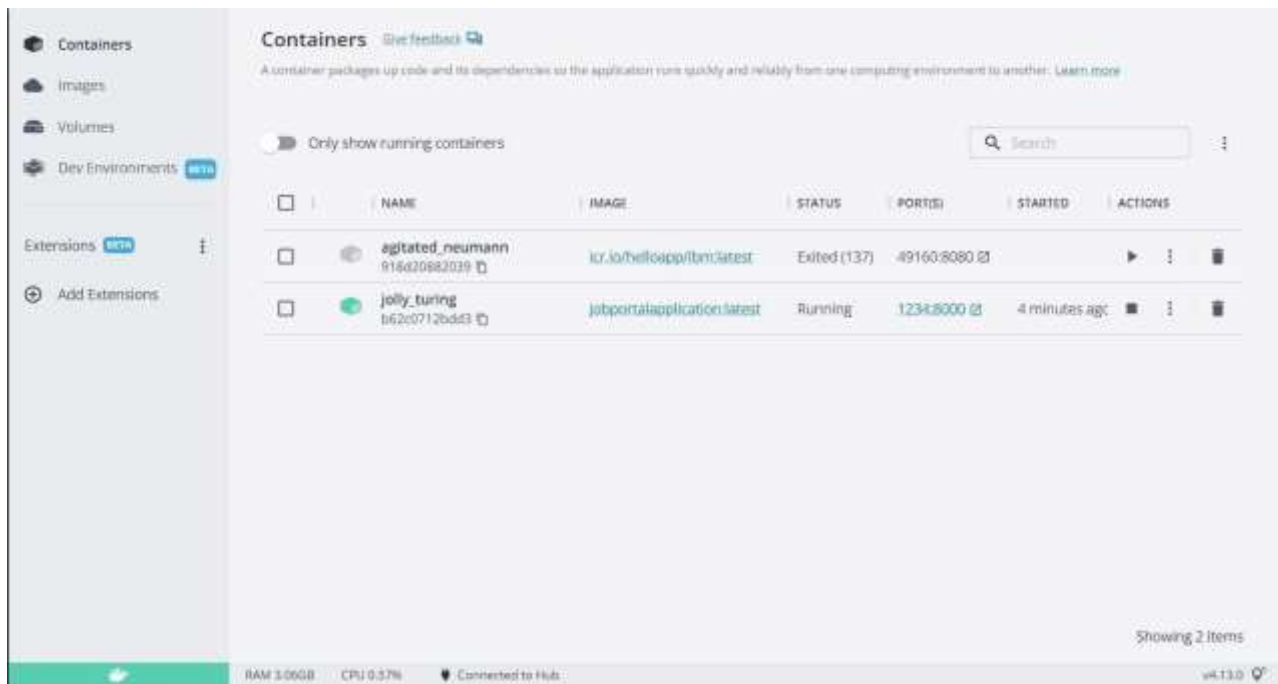
Question 2:

Create a docker file for the jobportal application and deploy it in Dockerdesktop application.

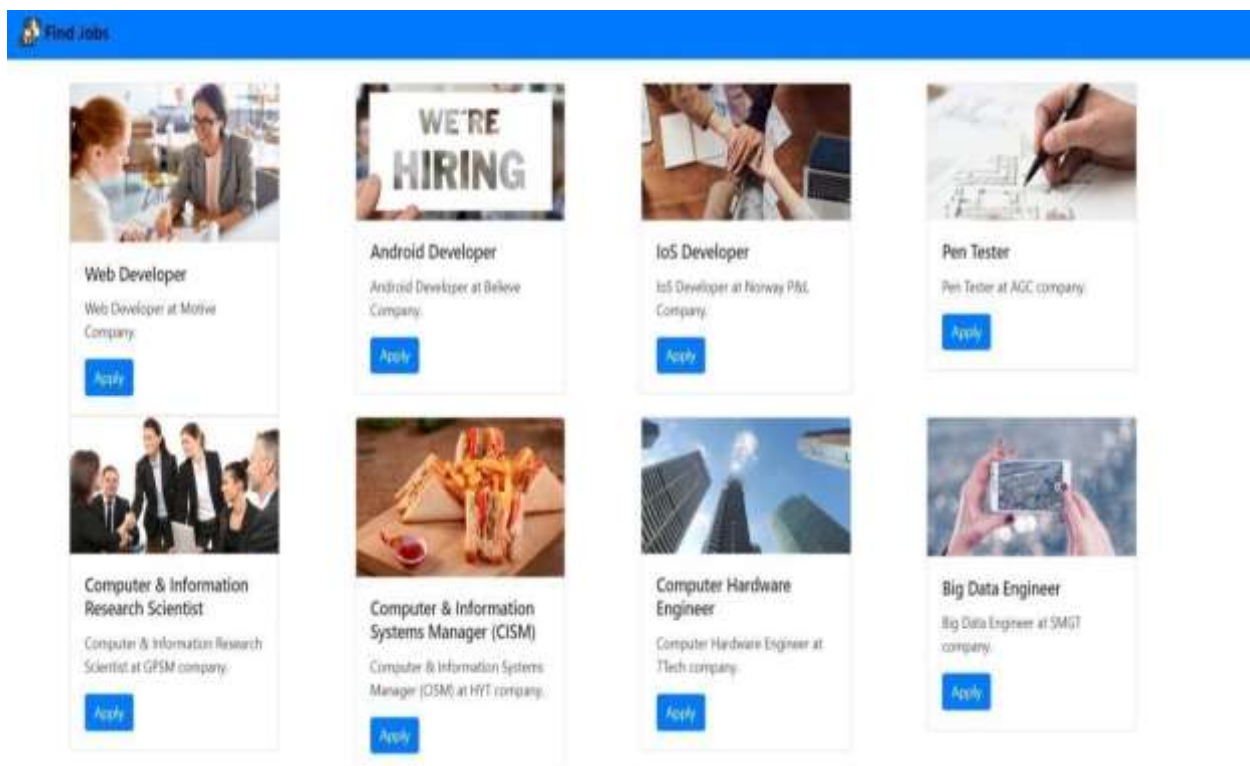
DOCKERFILE:

```
1 FROM python:3.6-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:

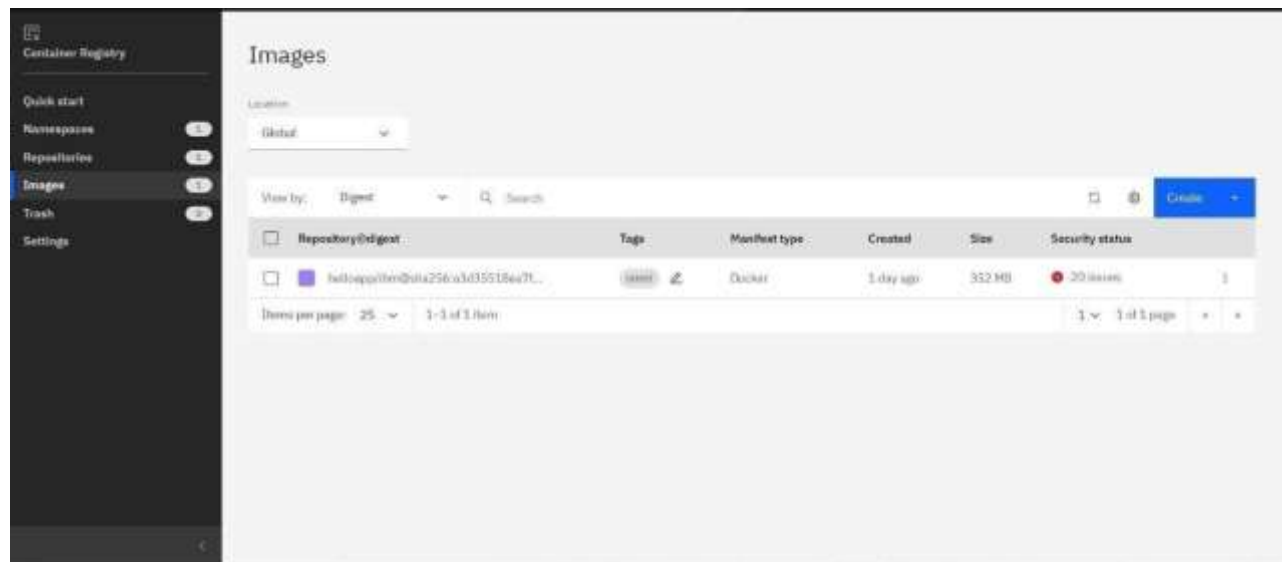


Question 3:

Create a IBM container registry and deploy helloworld app

or jobportapp.IBM CONTAINER REGISTRY

DEPLOYMENT:

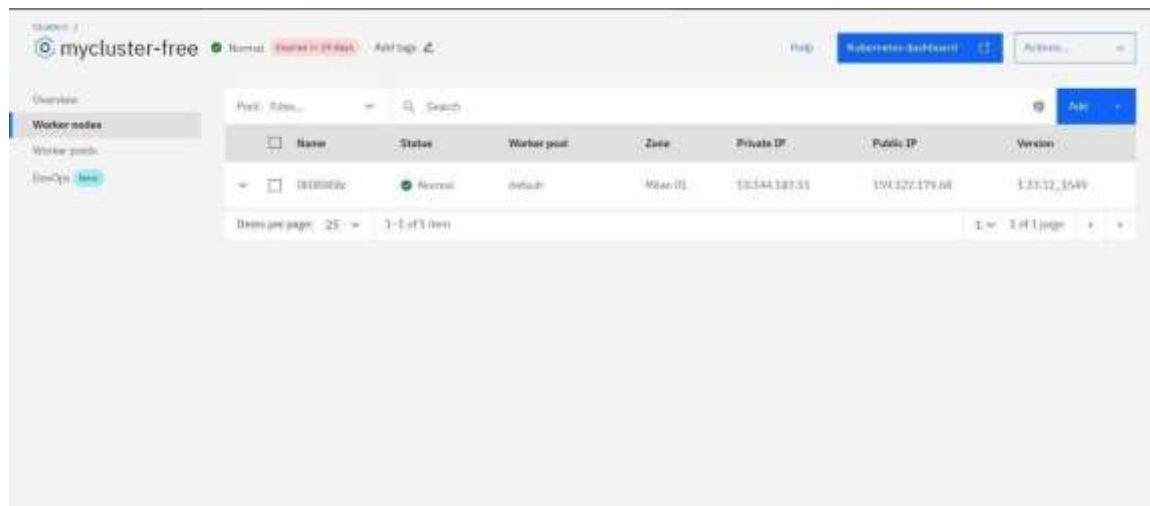


OUTPUT:



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:

