

ASSIGNMENT - 4

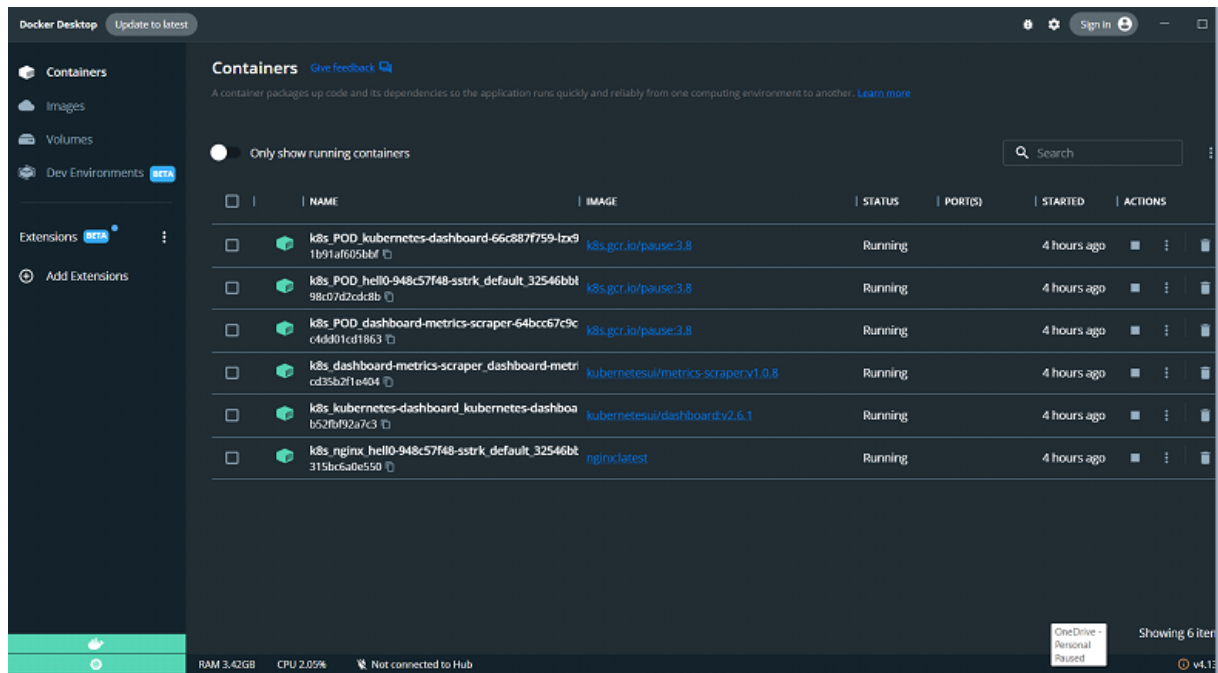
Assignment Date	5/11/2022
Student Name	JOTHIKA H
Student Roll Number	711619104018

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

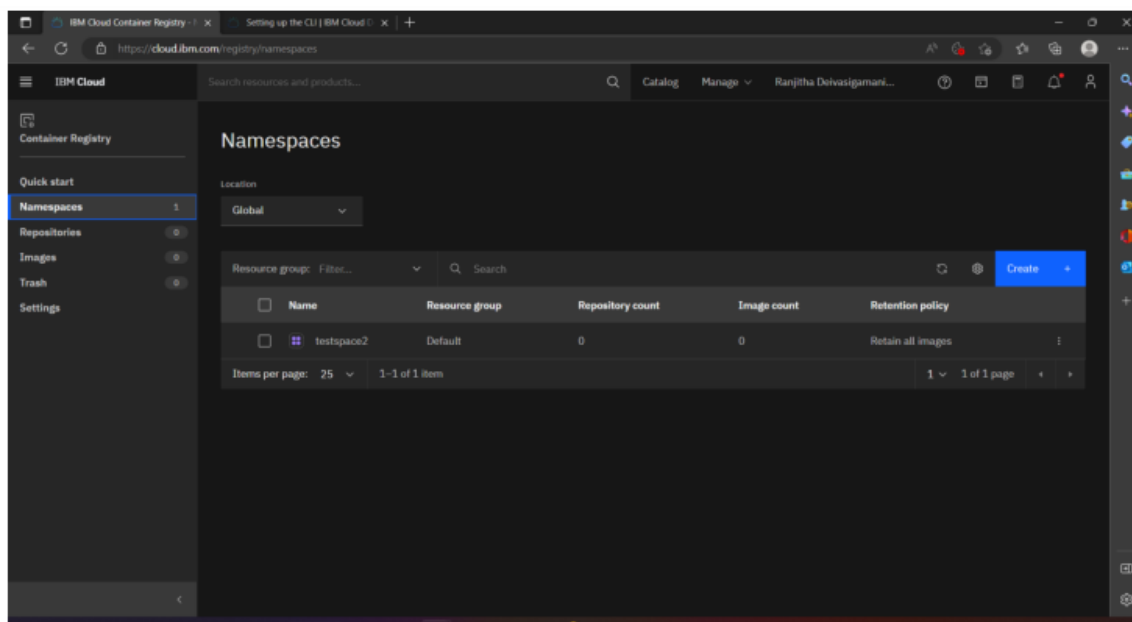
The screenshot displays the Docker Playground interface. On the left sidebar, there is a clock showing 02:45:24, a 'CLOSE SESSION' button, and a list of instances. One instance, '192.168.0.28 node1', is listed. The main panel shows details for a container named 'cdiinsm3_cdi8ee3tccg00a7r6qg'. It includes the IP address '192.168.0.28', memory usage '1.14% (45.68MiB / 3.906GiB)', and CPU usage '0.08%'. An SSH command is provided: 'ssh ip172-18-0-53-cdiinsm3tccg00a7r5n0@direct.labs.play'. Below this, there are 'DELETE' and 'EDITOR' buttons. The terminal window shows the following output:

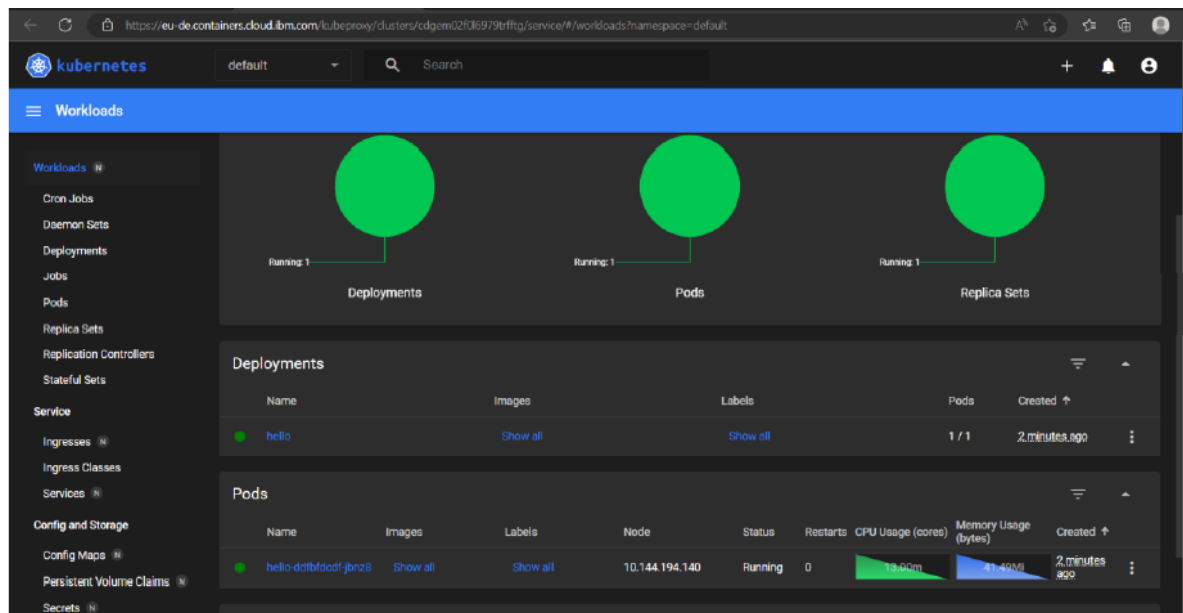
```
[node1] [local] root@192.168.0.28 ~
$ docker build -t helloapp .
Sending build context to Docker daemon 24.59kB
Step 1/6 : FROM python
latest: Pulling from library/python
17c9e6141fdb: Pull complete
3e4a4c6caea8: Pull complete
4edced8987e6: Pull complete
a7969c9ffb46: Pull complete
74fbfde6af91: Pull complete
16fe51aed899: Pull complete
e9ee507bb0de: Pull complete
4d9dbb46d211: Pull complete
3b9b3c4e849c: Pull complete
Digest: sha256:fc809ada71c087cec7e2d2244bcb9fba137638978a669f2aaf6267db43e891df
Status: Downloaded newer image for python:latest
----> 00cd1fb8bdcc
Step 2/6 : WORKDIR /app
----> Running in e81d12falf22
Removing intermediate container e81d12falf22
----> 1c60c3bb3bef
Step 3/6 : COPY . .
----> 2c8f66eb4834
```

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



3) Create a IBM container registry and deploy “Job Portal”.





- 4) Create a kubernetes cluster in IBM cloud and deploy “Job portal” image and also explore the same app to run in nodeport.

