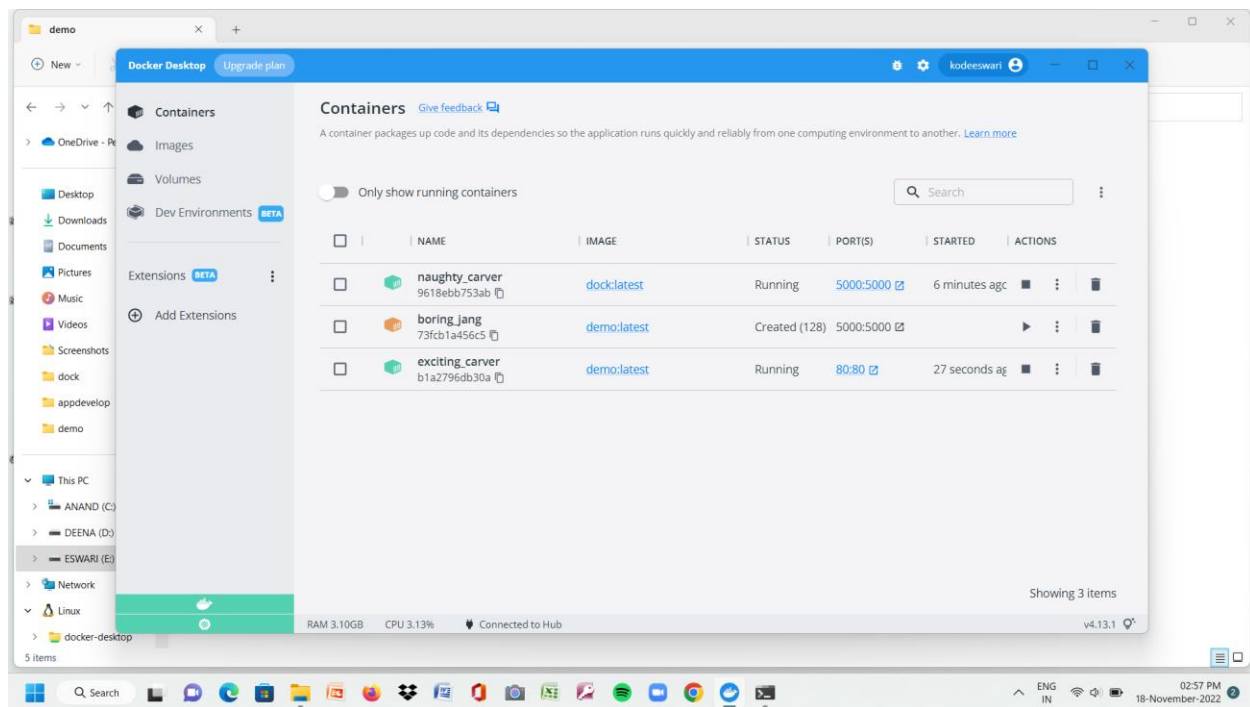


ASSIGNMENT – 4

Student Name	KODEESWARI R C
Student Roll Number	913019104012

QUESTION:

- 1.Pull an Image from docker hub and run it in docker playground.
- 2.Create a docker file for the job portal application and deploy it in Docker desktop application.
- 3.Create a IBM container registry and deploy hello world app or job portal app.
- 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.



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

E:\demo>docker build -t demo .
[+] Building 3.6s (14/14) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 32B                                                0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> resolve image config for docker.io/docker/dockerfile:1                      1.3s
=> CACHED docker-image://docker.io/docker/dockerfile:1@sha256:9ba7531bd88fb0a858632727cf7a112fbfd19b17e94c4e84ce 0.0s
=> [internal] load build definition from Dockerfile                                0.0s
=> [internal] load .dockerignore                                                  0.0s
=> [internal] load metadata for docker.io/library/python:3.9.6-slim-buster      1.8s
=> [1/5] FROM docker.io/library/python:3.9.6-slim-buster@sha256:28bed4c51c3b531159d8affc0225701ed616a7deacfd9dfb 0.0s
=> [internal] load build context                                                  0.0s
=> => transferring context: 3.68kB                                                0.0s
=> CACHED [2/5] WORKDIR /app.py                                                  0.0s
=> CACHED [3/5] COPY requirements.txt requirements.txt                          0.0s
=> CACHED [4/5] RUN pip3 install -r requirements.txt                            0.0s
=> [5/5] COPY . /app.py                                                         0.0s
=> exporting to image                                                            0.0s
=> => exporting layers                                                            0.0s
=> => writing image sha256:638ae100a1e1dc018960d4be04718b2bf5b7c239a13a885907f4a20dfe525537 0.0s
=> => naming to docker.io/library/demo                                           0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

E:\demo>docker run -d -p 5000:5000 demo
73fcb1a456c5eff8c38ef0fbd74be2768a16509bce654cdd64a87158cdb2e38f
docker: Error response from daemon: driver failed programming external connectivity on endpoint boring_jang (d815b734691aca03df36a36793c3d66a863ea31cf6e10bf082ae3b09e39b7684): Bind for 0.0.0.0:5000 failed: port is already allocated.

E:\demo>docker run -d -p 80:80 demo
bla2796db30ace5519faa4001fb82e4dec5842fb57878573d884d8c93351b53d

E:\demo>
```

```
127.0.0.1:8080
Hello World Alerting App!
```

IBM-Project-18105-1659679490mycluster-free - IBM Cloud

cloud.ibm.com/kubernetes/clusters/cdr6ppff0sr4pti47t9g/overview

IBM CloudSearch resources and products...CatalogManageKODEESWARI RC's Acc...

Clusters /mycluster-freePreparing master, workers...Expires in 30 daysAdd tags

HelpKubernetes dashboardActions...

Help

Log in to your clusterDeploy your appExpose your appAdd storage to your appConnect integrationsInstall add-onsTroubleshoot

OverviewWorker nodesWorker poolsDevOps 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 status1 of 1PendingDetails

Add-on status0 of 0NormalDetails

Master statusUnknownDocs

Ingress statusPendingDocs

Details

Cluster ID	Version	Infrastructure	Zones
cdreppff0sr4pti47t9g	1.24.8_1544	Classic	Milan 01
Created	Resource group	Image security enforcement	
11/17/2022, 10:48 PM		Enable	

Node healthWorker node details

Q Search

ENG IN10:50 PM17-November-2022