

## Assignment-4

### Docker and Kubernetes

Assignment Date	16 NOVEMBER 2022
Student Name	S. ABIRAMI
Student Roll Number	812419104002
Maximum Marks	2 Marks

#### Questions:

1. Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
3. Create a IBM container registry and deploy helloworld app or jobportalapp.
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.

#### Solutions:

```
root@73a0326123ed /
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Saravanan>docker -v
Docker version 20.10.20, build 9fdeb9c

C:\Users\Saravanan>docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
586e057aae67: Pull complete
Digest: sha256:4b100c4a22aaf63b3711f34eb9fa09fa1bf53dd6e4ca954d47caebca4005c2
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest

C:\Users\Saravanan>docker run ubuntu
C:\Users\Saravanan>docker run --name myubuntu -it ubuntu bash
root@73a0326123ed:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys usr var
root@73a0326123ed:/#
```

Docker Desktop

Upgrade plan

Sign in

Containers

Images

Volumes

Dev Environments

Extensions

Add Extensions

Images on disk

Last refresh: 6 days ago1 Images0 Bytes total sizeRefresh to see disk usageClean up

Images

LOCALREMOTE REPOSITORIES

Search

In use only

NAME	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	a8780b506fa4	7 days ago	77.79 MB

Connect to Remote Content

Not connected

Store and backup your Images remotely

Collaborate with your team

Unlock vulnerability scanning for greater security

Connect for free

Sign in

RAM 1.62GBCPU 0.59%

Not connected to Hub

Type here to search

27°C Haze

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