

Assignment-4
Docker and Kubernetes

Assignment Date	21 October 2022
Student Name	MAKESH S
Student Roll Number	73771914132
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
5d6e057ae67: Pull complete
Digest: sha256:4b108c4a2d2aef63b3711f34eb9fa89fa1bf53dd6e4ca954d47caebca4005c2
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 size

Refresh to see disk usage

Clean up

Images

Give feedback

LOCAL

REMOTE 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 1.62GB

CPU 0.59%

Not connected to Hub

v4.13.1

Type here to search

27°C Haze

19:31

09-11-2022