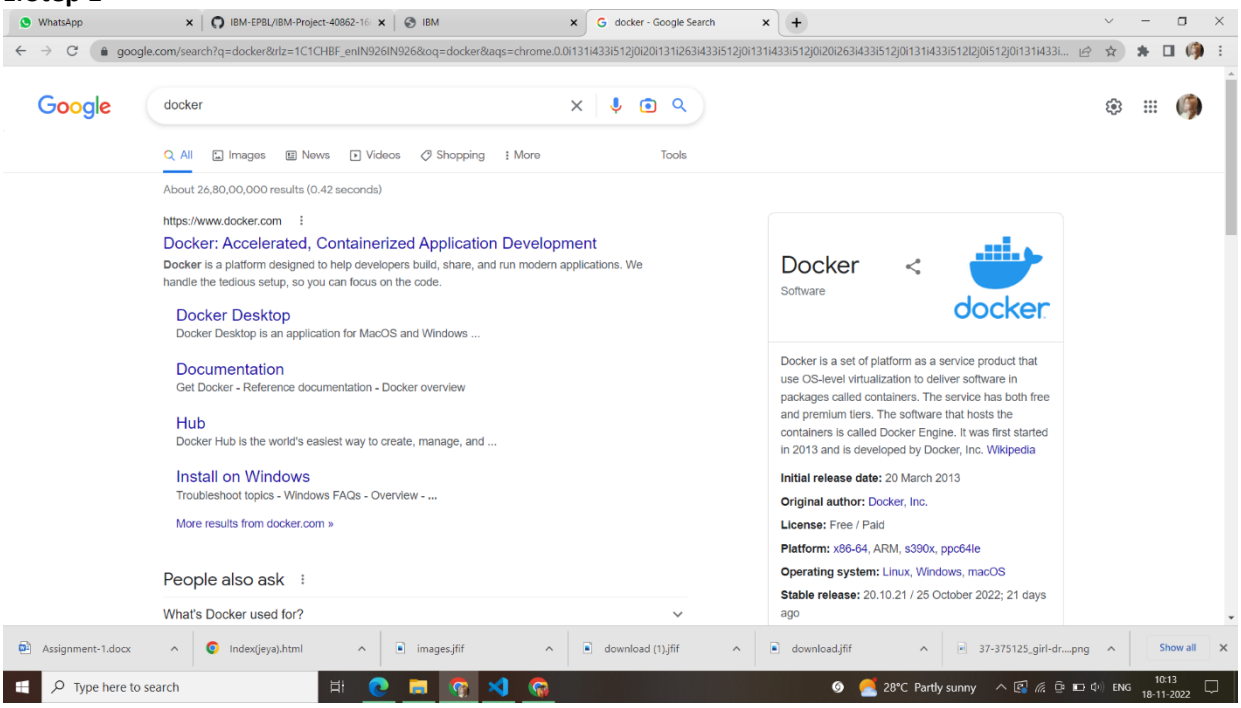
Assignment -4

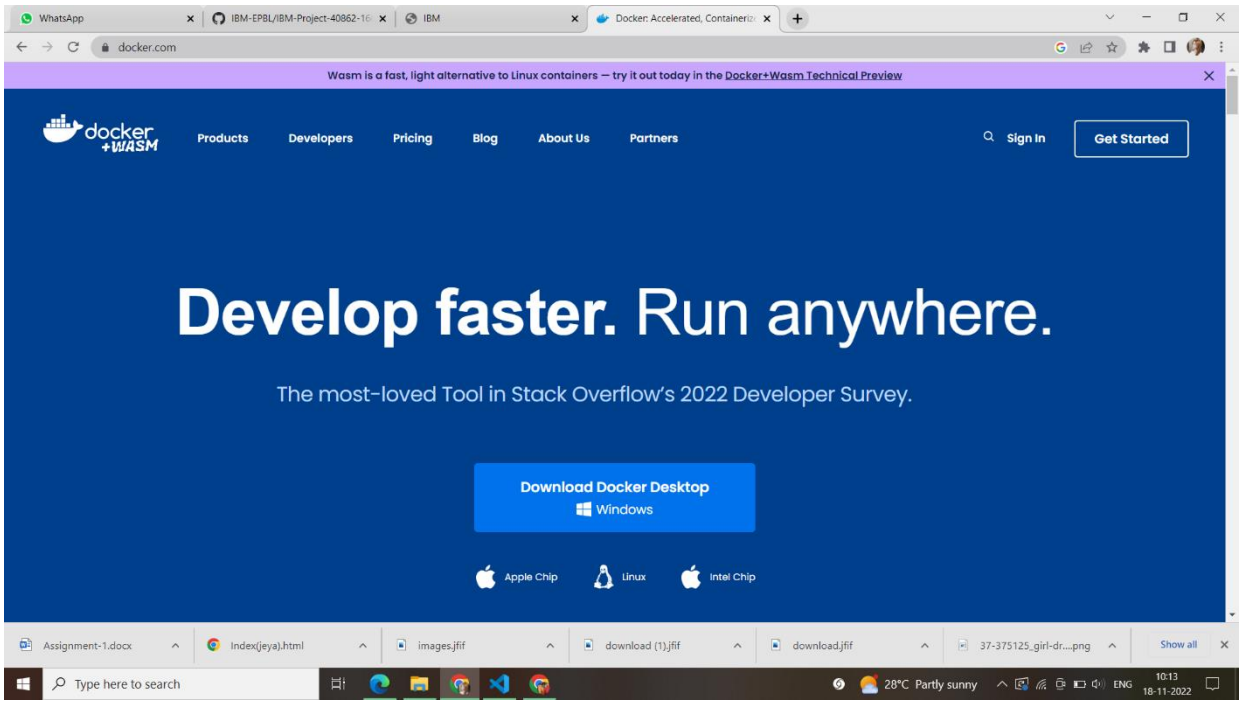
Docker and Kubernetes

Assignment Date	1 November 2022
Student Name	J.ANANYA
Student Roll Number	113319205003
Maximum Marks	2 Marks

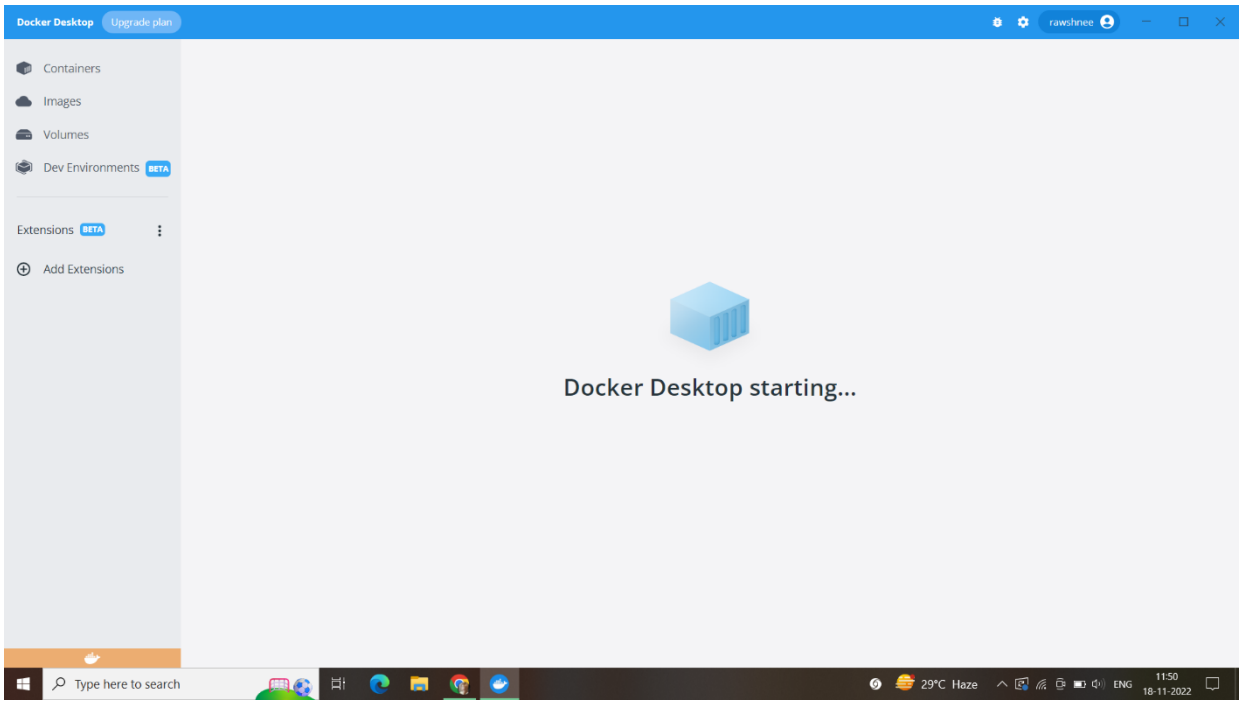
1. Step 1



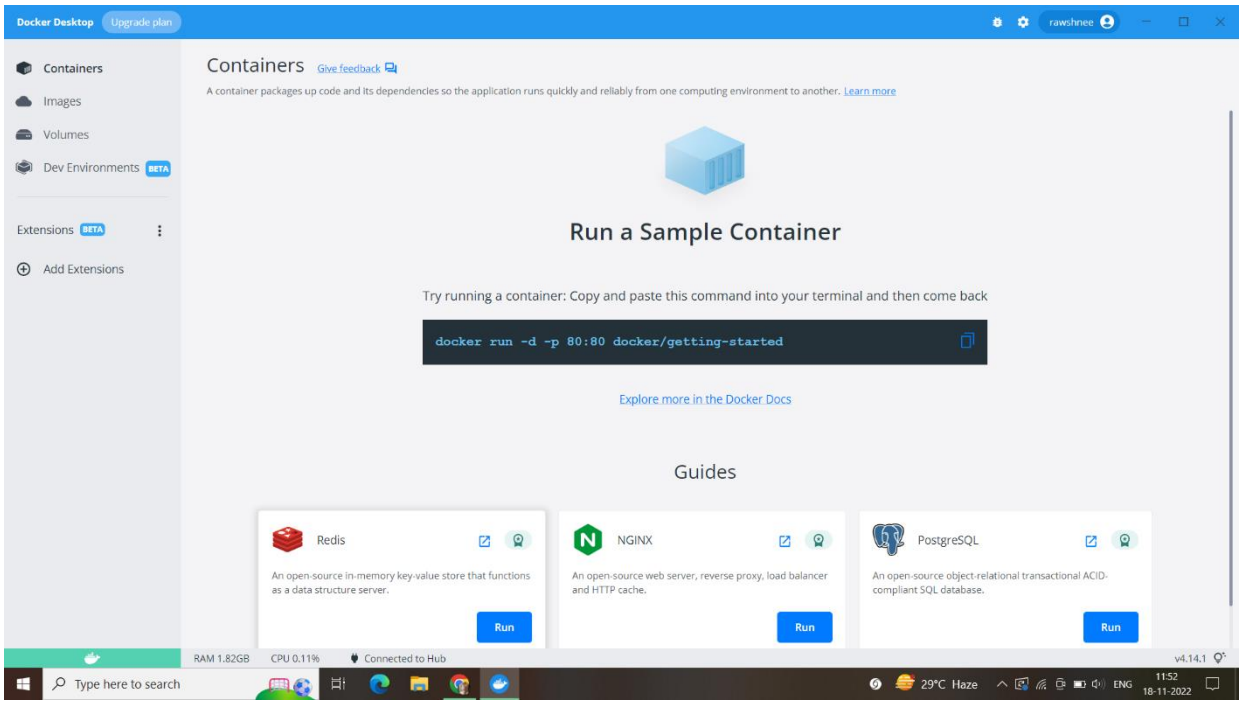
Step.2



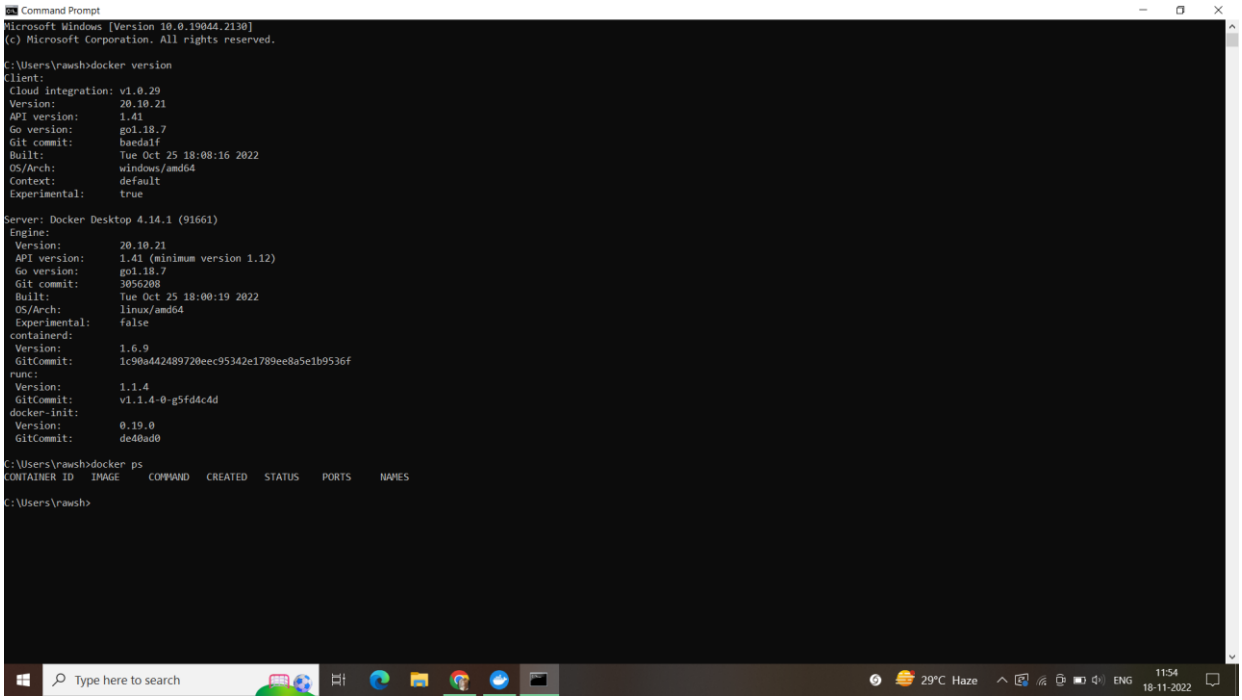
Step.3


Docker Desktop
Upgrade plan
rawshnee
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Docker Desktop starting...
Type here to search
29°C Haze
ENG
11:50
18-11-2022

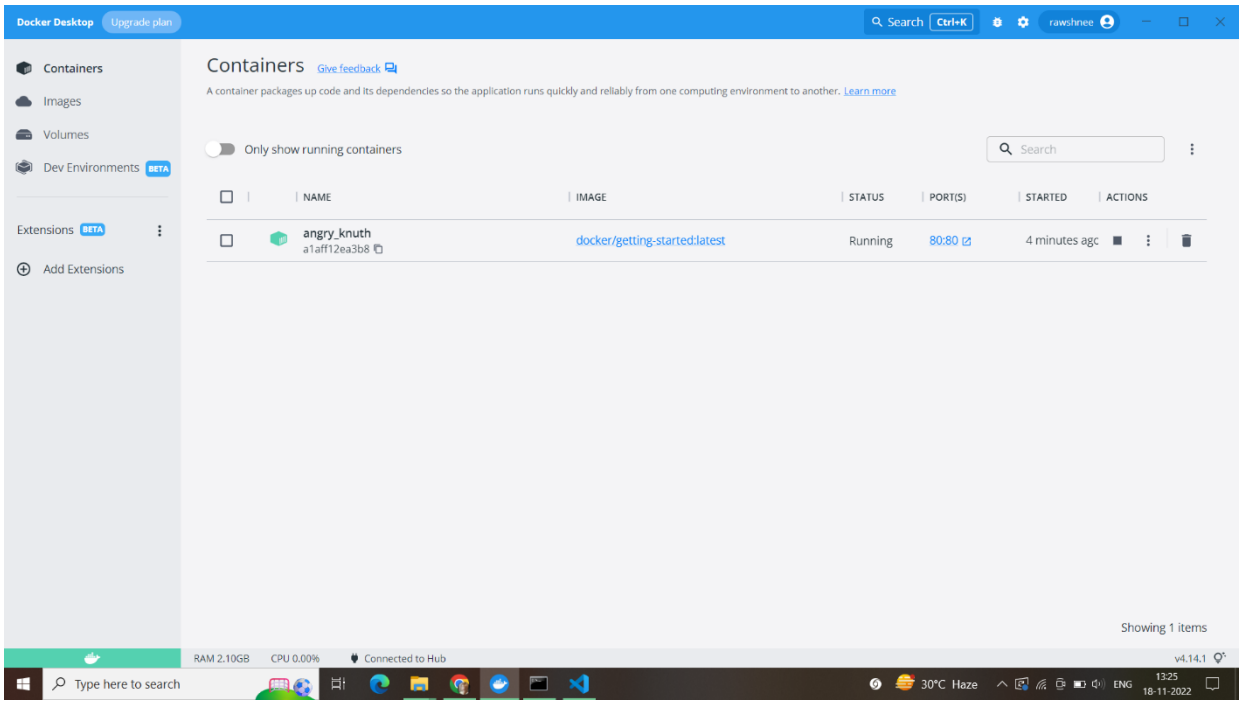
Step.4


Docker Desktop
Upgrade plan
rawshnee
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Run a Sample Container
Try running a container: Copy and paste this command into your terminal and then come back
docker run -d -p 80:80 docker/getting-started
Explore more in the Docker Docs
Guides
Redis
An open-source in-memory key-value store that functions as a data structure server.
Run
NGINX
An open-source web server, reverse proxy, load balancer and HTTP cache.
Run
PostgreSQL
An open-source object-relational transactional ACID-compliant SQL database.
Run
RAM 1.82GB
CPU 0.11%
Connected to Hub
v4.14.1
Type here to search
29°C Haze
ENG
11:52
18-11-2022

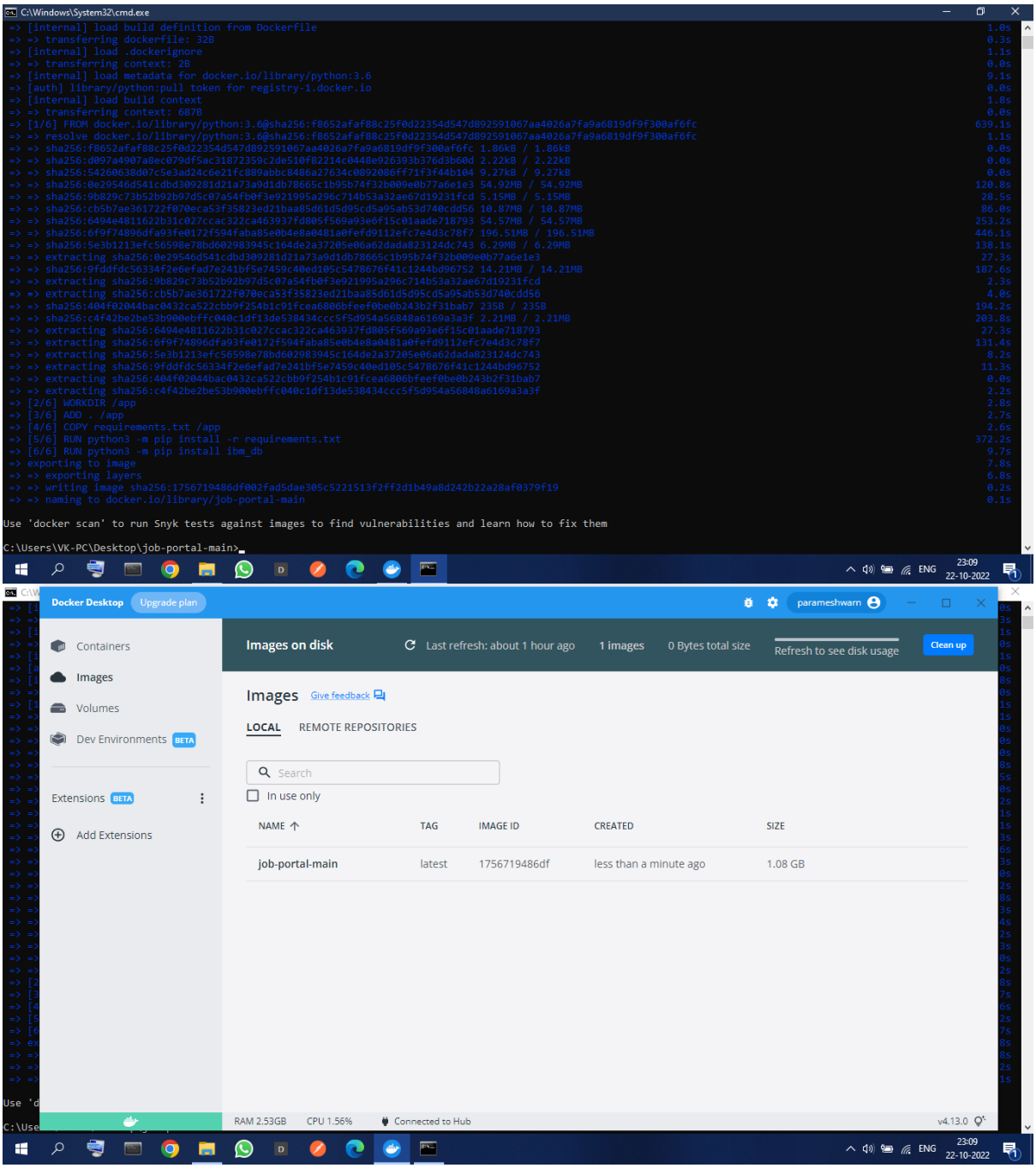
Step.5


Command Prompt
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.
C:\Users\rawsh>docker version
Client:
Cloud integration: v1.0.29
Version: 20.10.21
API version: 1.41
Go version: go1.18.7
Git commit: baeda1f
Built: Tue Oct 25 18:08:16 2022
OS/Arch: windows/amd64
Context: default
Experimental: true
Server: Docker Desktop 4.14.1 (91661)
Engine:
Version: 20.10.21
API version: 1.41 (minimum version 1.12)
Go version: go1.18.7
Git commit: 3056208
Built: Tue Oct 25 18:00:19 2022
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.6.9
GitCommit: 1c90a442489720eec95342e1789ee8a5e1b9536f
runc:
Version: 1.1.4
GitCommit: v1.1.4-0-g5fd4c4d
docker-init:
Version: 0.19.0
GitCommit: de40ad0
C:\Users\rawsh>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
C:\Users\rawsh>
Type here to search
29°C Haze
ENG
11:54
18-11-2022

Step.6


Docker Desktop
Upgrade plan
Search Ctrl+K
rawshnee
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Only show running containers
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
angry_knuth
a1aff12ea3b8
docker/getting-started:latest
Running
80:80
4 minutes ago
Showing 1 items
RAM 2.10GB
CPU 0.00%
Connected to Hub
v4.14.1
Type here to search
30°C Haze
ENG
13:25
18-11-2022

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 helloword app