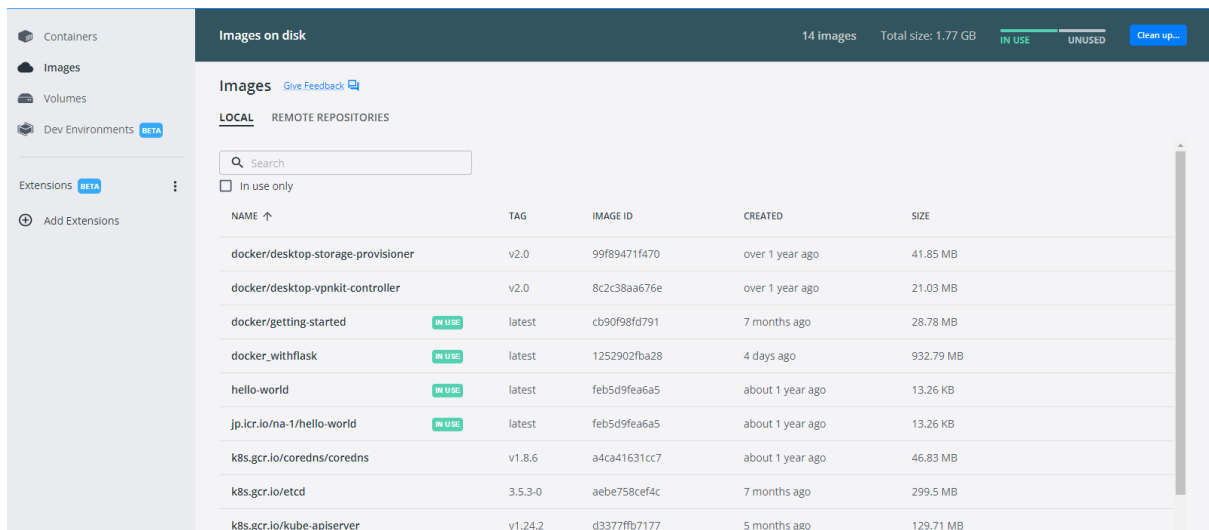


Assignment -4

Assignment Date	22 October 2022
Student Name	Weslin Joel Raj A
Student Roll Number	811319104030
Maximum Marks	2 Marks

1.Pull an Image from docker hub and run it in docker playground.

2.Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.



The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (with a BETA tag), Extensions (with a BETA tag), and Add Extensions. The main panel is titled 'Images on disk' and shows a summary: 14 Images, Total size: 1.77 GB, with a progress bar indicating 'IN USE' and 'UNUSED' space, and a 'Clean up...' button. Below this is a section for 'Images' with a 'Give Feedback' link and tabs for 'LOCAL' and 'REMOTE REPOSITORIES'. A search bar and an 'In use only' checkbox are present. The main content is a table of local images.

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
docker/desktop-storage-provisioner	v2.0	99f89471f470	over 1 year ago	41.85 MB
docker/desktop-vpnkit-controller	v2.0	8c2c38aa676e	over 1 year ago	21.03 MB
docker/getting-started	latest	cb90f98fd791	7 months ago	28.78 MB
docker_withflask	latest	1252902fba28	4 days ago	932.79 MB
hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
jp.jcr.io/na-1/hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
k8s.gcr.io/coredns/coredns	v1.8.6	a4ca41631cc7	about 1 year ago	46.83 MB
k8s.gcr.io/etcd	3.5.3-0	aeb5758cef4c	7 months ago	299.5 MB
k8s.gcr.io/kube-apiserver	v1.24.2	d3377ffb7177	5 months ago	129.71 MB

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](#)

Showing 3 Items

Search

	NAME	IMAGE	STATUS	PORT(S)	STARTED	
<input type="checkbox"/>	<div>romantic_easley</div> <div>aebc0a80b9b9</div>	docker_withflasklatest	Exited (255)	5000		<div><div></div><div></div></div>
<input type="checkbox"/>	<div>quirky_edison</div> <div>d6ec5a6c270d</div>	docker/getting-started:latest	Exited	80		<div><div></div><div></div></div>
<input type="checkbox"/>	<div>sharp_einstein</div> <div>d7825c1e2048</div>	hello-world:latest	Exited	-		<div><div></div><div></div></div>

localhost5000/signup

localhost5000/signup

chat Home signup Dropdown disabled

Search

Create Your Account

Enter Name :

Enter user here

Enter Email ID :

Enter Email ID here

Enter Username :

Enter Username here

Enter Password :

Enter Password here

Enter Confirm Password :

Enter Password here

Clear Form

Create Account

[Learn more](#)

Search

STATUS	PORT(S)	STARTED	
Running	5000	45 seconds ago	<div><div></div><div></div><div></div><div></div><div></div></div>
Exited	80		<div><div></div><div></div></div>
Exited	-		<div><div></div><div></div></div>

3. Create a **IBM container registry** and **push docker image** of flask application or job portal app.

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Images

Location
Tokyo

View by: Digest Search Create +

<input type="checkbox"/>	Repository@digest	Tags	Manifest type	Created	Size	Security status	
<input type="checkbox"/>	na-1/hello-world@sha256:f54a58bc1aac...	latest	Docker	403 days ago	2 KB	Unsupported OS	

Items per page: 25 1-1 of 1 item

1 1 of 1 page

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Repositories

Location
Tokyo

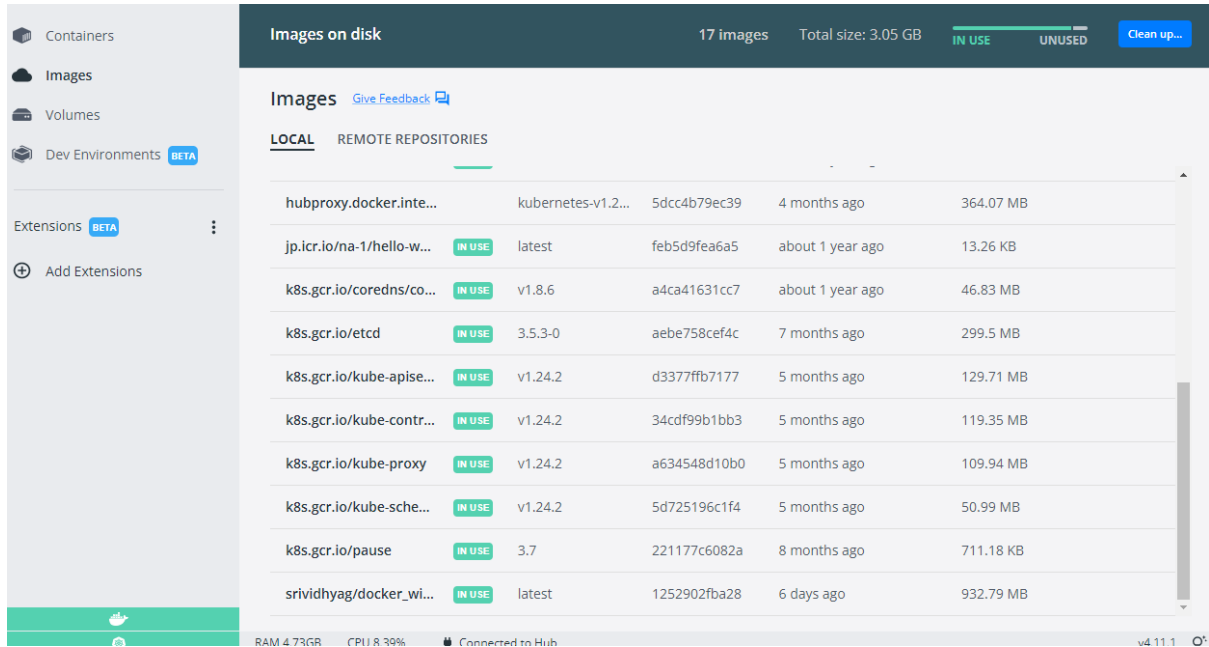
Search Create +

<input type="checkbox"/>	Name	Image count	Namespace	Last updated	
<input checked="" type="checkbox"/>	hello-world jp.icr.io/na-1/hello-world	1	na-1	403 days ago	

Items per page: 25 1-1 of 1 item

1 1 of 1 page

4. Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in nodeport.



The screenshot displays the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), and Extensions (marked BETA). The main panel is titled 'Images on disk' and shows a progress bar for '17 images' with a total size of '3.05 GB'. Below this, there's a section for 'Images' with a 'Give Feedback' link. The 'LOCAL' tab is active, showing a table of images. The table has columns for repository name, tag, digest, time since update, and size. Several images are marked as 'IN USE'.

Repository	Tag	Digest	Time since update	Size
hubproxy.docker.inte...	kubernetes-v1.2...	5dcc4b79ec39	4 months ago	364.07 MB
jp.icr.io/na-1/hello-w...	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
k8s.gcr.io/coredns/co...	v1.8.6	a4ca41631cc7	about 1 year ago	46.83 MB
k8s.gcr.io/etcd	3.5.3-0	aebe758cef4c	7 months ago	299.5 MB
k8s.gcr.io/kube-apis...	v1.24.2	d3377ffb7177	5 months ago	129.71 MB
k8s.gcr.io/kube-contr...	v1.24.2	34cdf99b1bb3	5 months ago	119.35 MB
k8s.gcr.io/kube-proxy	v1.24.2	a634548d10b0	5 months ago	109.94 MB
k8s.gcr.io/kube-sche...	v1.24.2	5d725196c1f4	5 months ago	50.99 MB
k8s.gcr.io/pause	3.7	221177c6082a	8 months ago	711.18 KB
srividhyag/docker_wi...	latest	1252902fba28	6 days ago	932.79 MB

At the bottom of the interface, system status is shown: RAM 4.73GB, CPU 8.30%, Connected to Hub, and version v4.11.1.