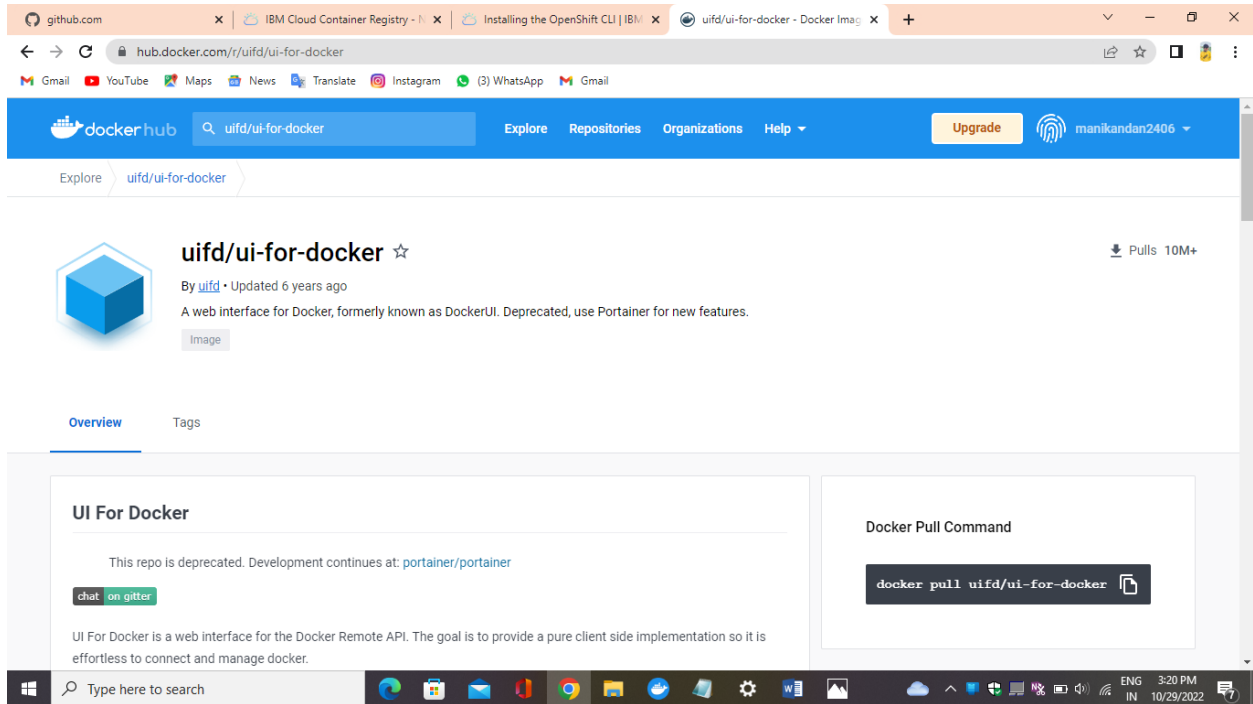


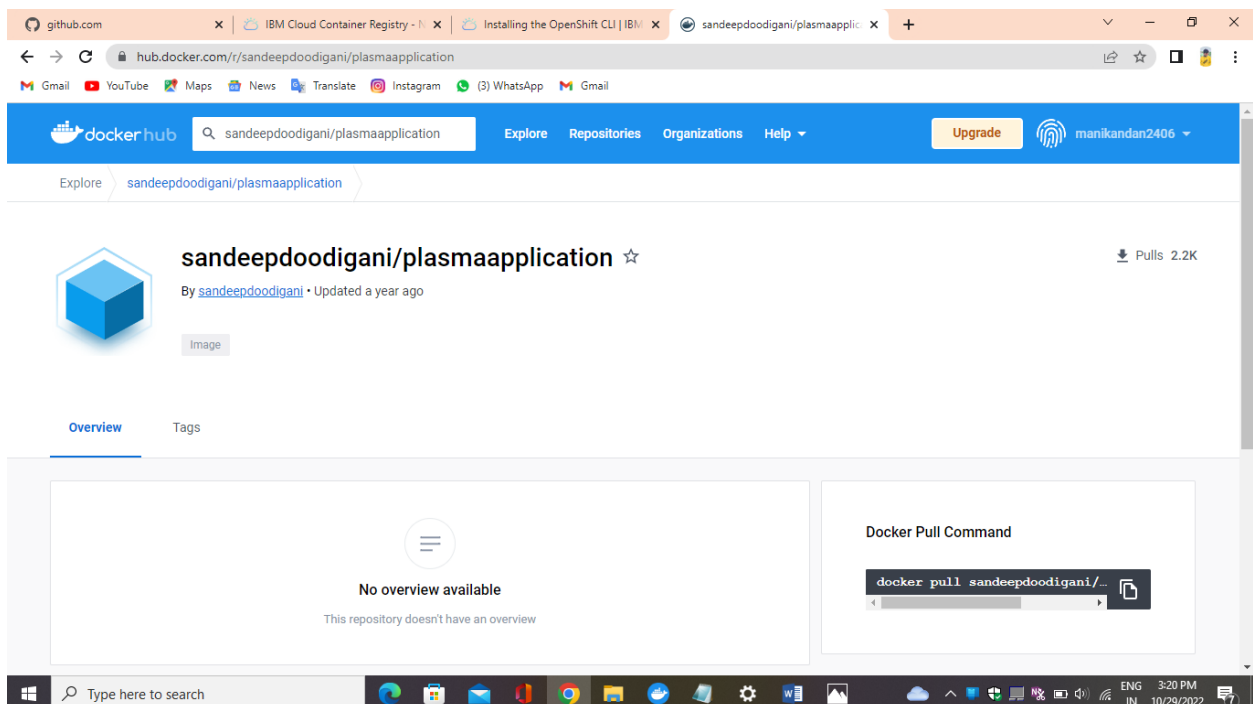
Team no:

PNT2022TMID36609

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



The screenshot shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page header includes the Docker Hub logo, a search bar with the text `uifd/ui-for-docker`, and navigation links for Explore, Repositories, Organizations, and Help. The repository name `uifd/ui-for-docker` is displayed with a star icon and a pull count of 10M+. Below the repository name, it states "By uifd • Updated 6 years ago" and "A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features." The "Overview" tab is selected, showing a message: "This repo is deprecated. Development continues at: [portainer/portainer](#)". A "chat on gitter" button is also present. The "Tags" tab is also visible. On the right, the "Docker Pull Command" is shown as `docker pull uifd/ui-for-docker`. The Windows taskbar at the bottom shows the time as 3:20 PM on 10/29/2022.



The screenshot shows the Docker Hub page for the repository `sandeepdoodigani/plasmaapplication`. The page header includes the Docker Hub logo, a search bar with the text `sandeepdoodigani/plasmaapplication`, and navigation links for Explore, Repositories, Organizations, and Help. The repository name `sandeepdoodigani/plasmaapplication` is displayed with a star icon and a pull count of 2.2K. Below the repository name, it states "By sandeepdoodigani • Updated a year ago". The "Overview" tab is selected, showing a message: "No overview available. This repository doesn't have an overview." The "Tags" tab is also visible. On the right, the "Docker Pull Command" is shown as `docker pull sandeepdoodigani/_`. The Windows taskbar at the bottom shows the time as 3:20 PM on 10/29/2022.

03:02:39

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.27  
node2

cdafek63\_cdag8u63tccg00fghpkg

IP  
192.168.0.27

OPEN PORT

Memory

CPU

SSH  
ssh ip172-18-0-20-cdafek63tccg00fghpkg@direct.labs.play-with-docker.com

DELETE

EDITOR

```

(node2) (local) root@192.168.0.27 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
(node2) (local) root@192.168.0.27 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
58d0c8595e5ede410f8114a1fb6423360b89a9792fa461e984a82845f52f6a1f
(node2) (local) root@192.168.0.27 ~
$

```

uifd/ui-for-docker - Docker Image

Docker Playground

UI For Docker

+

Not secure | ip172-18-0-55-cdafek63tccg00fghpkg-9000.direct.labs.play-with-docker.com/#/

Gmail

YouTube

Maps

News

Translate

Instagram

WhatsApp

Gmail

Dashboard

Containers

Containers Network

Images

Networks

Volumes

Info

Refresh

Running Containers

trusting\_chaum Created

eager\_cartwright Up 6 minutes

Status

Running

Stopped

Ghost

Containers created

10/23/2022

1

Images created

1

Browser tabs: sandeepdoodigani/plasmaapplic, Docker Playground

Address bar: labs.play-with-docker.com/p/cdb9jne3tccg00fgk5q0#cdb9jne3\_cdb9oeu0qau000ai2rvg

Navigation icons: Gmail, YouTube, Maps, News, Translate, Instagram, WhatsApp, Gmail

03:41:33

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28  
node1

### cdb9jne3\_cdb9oeu0qau000ai2rvg

IP: 192.168.0.28 [OPEN PORT](#)

Memory CPU

SSH: ssh ip172-18-0-5-cdb9jne3tccg00fgk5q0@direct.labs.play-w

[DELETE](#) [EDITOR](#)

```
a5b11f98dd3c: Pull complete
ed6e998eca84: Pull complete
879f8c8bca01: Pull complete
6e44f675ce9d: Pull complete
Digest: sha256:193eld9a311aa6dcdf22c816f731546658398ac500f559c02b23ac6c3489aec7
Status: Downloaded newer image for sandeepdoodigani/plasmaapplication:latest
docker.io/sandeepdoodigani/plasmaapplication:latest
(node1) (local) root@192.168.0.28 ~
$ docker run -p 8080:8080 sandeepdoodigani/plasmaapplication
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:8080/ (Press CTRL+C to quit)
```

Windows taskbar: 28°C Partly clo... 7:46 PM

Browser tabs: sandeepdoodigani/plasmaapplic, Docker Playground, Plasma Donor App

Address bar: Not secure | ip172-18-0-5-cdb9jne3tccg00fgk5q0-8080.direct.labs.play-with-docker.com

Navigation icons: Gmail, YouTube, Maps, News, Translate, Instagram, WhatsApp, Gmail

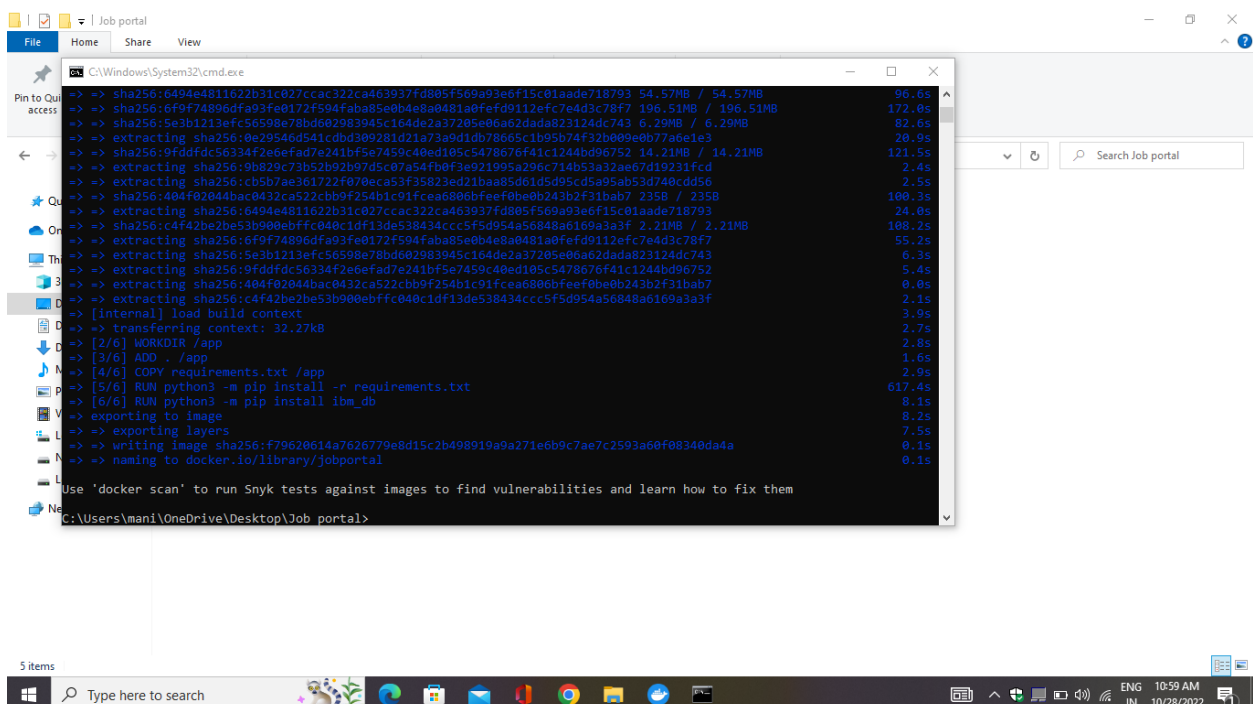
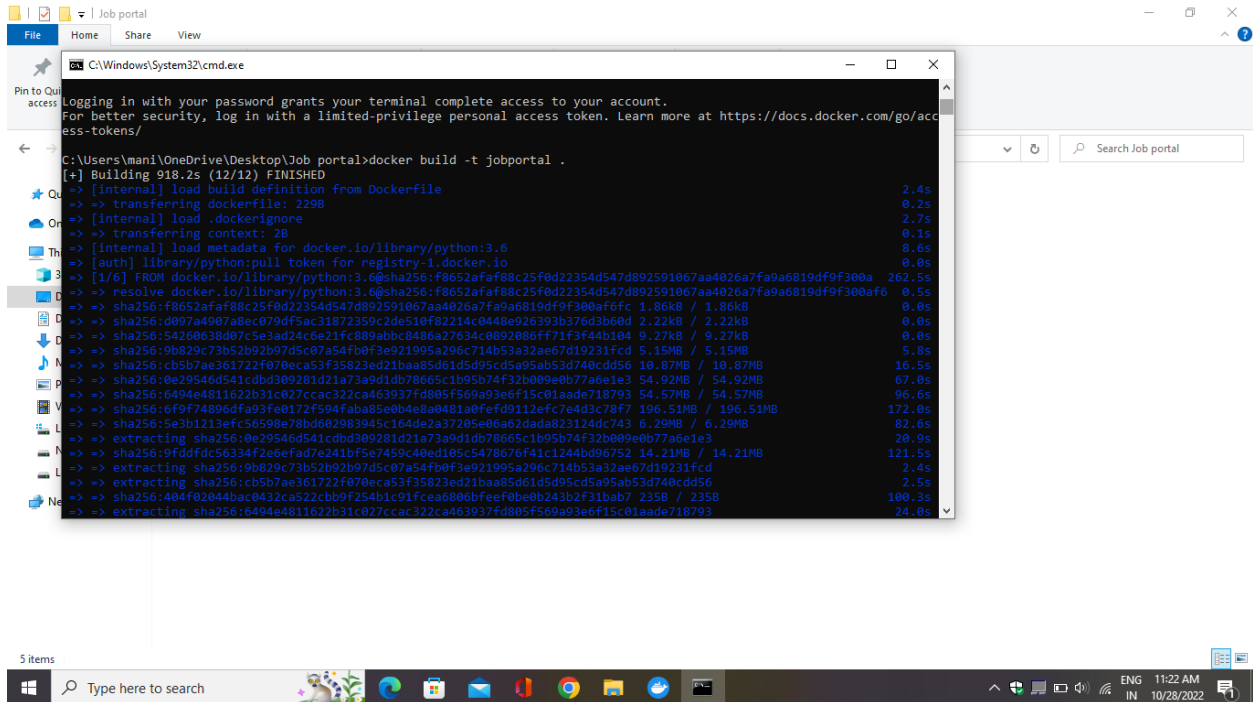
## Plasma Donor App

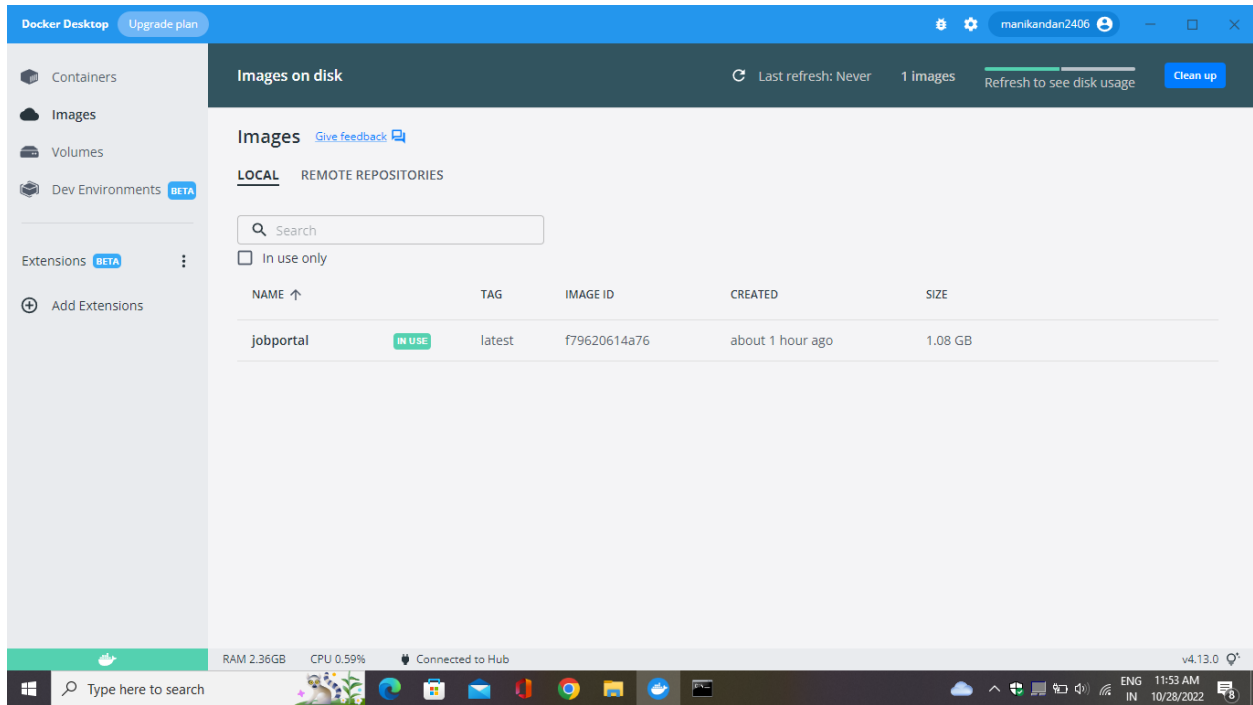
[Home](#) [Register](#)

[Login](#)

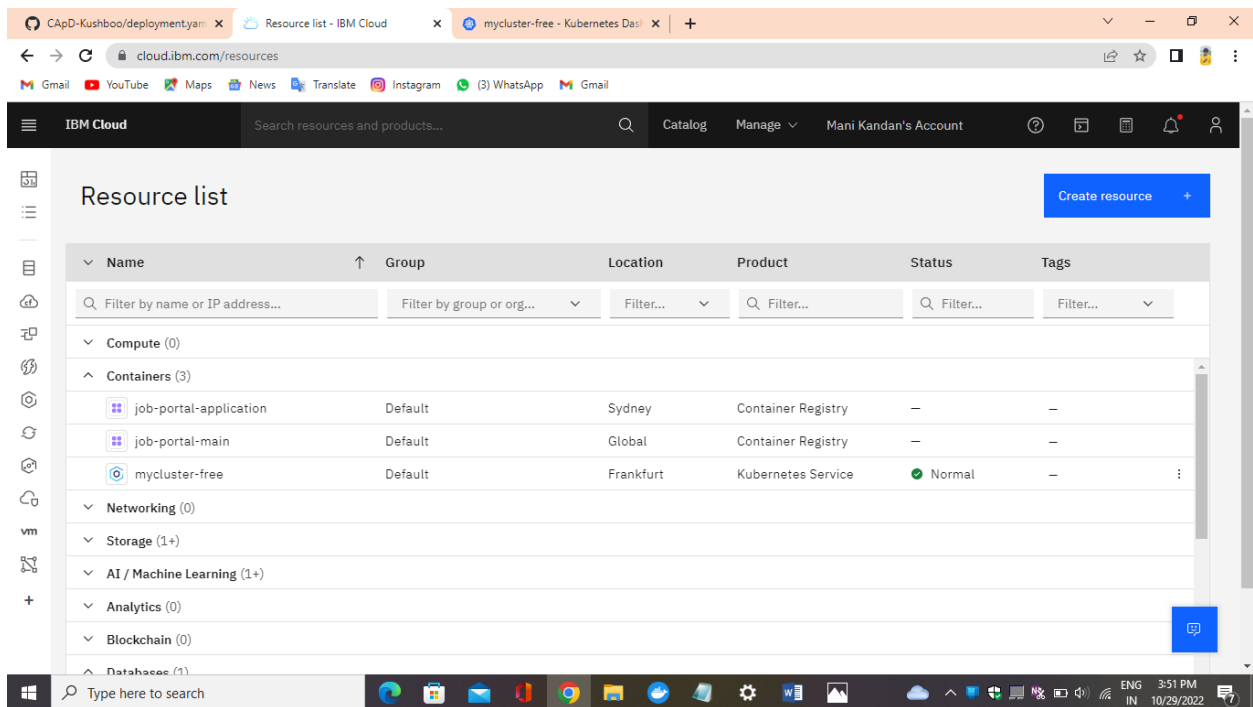
Windows taskbar: 28°C Partly clo... 8:15 PM

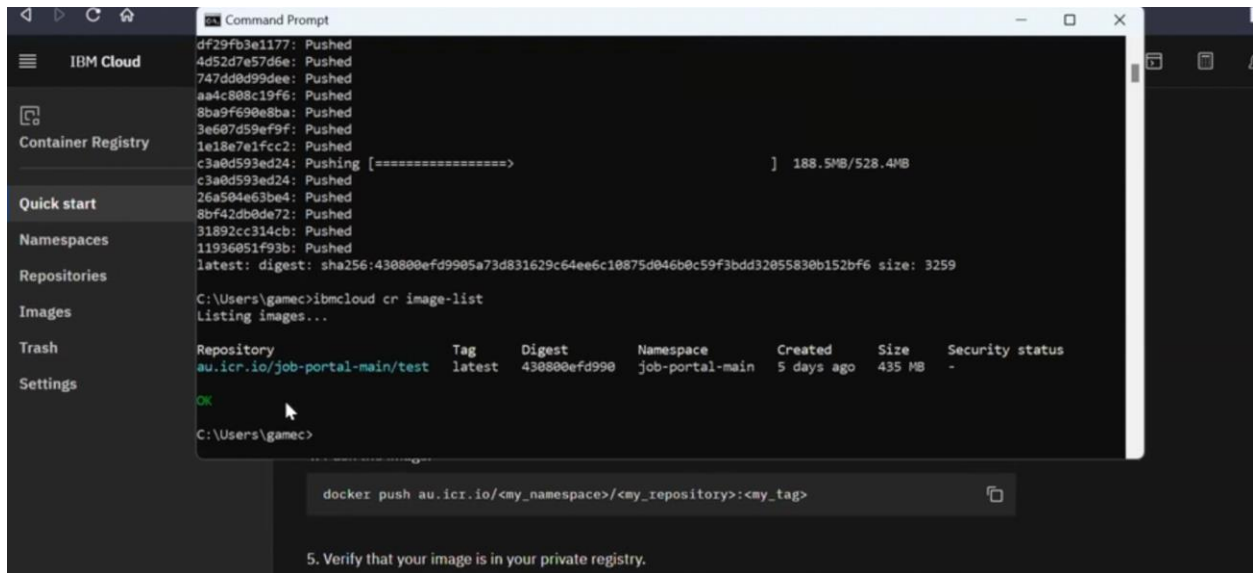
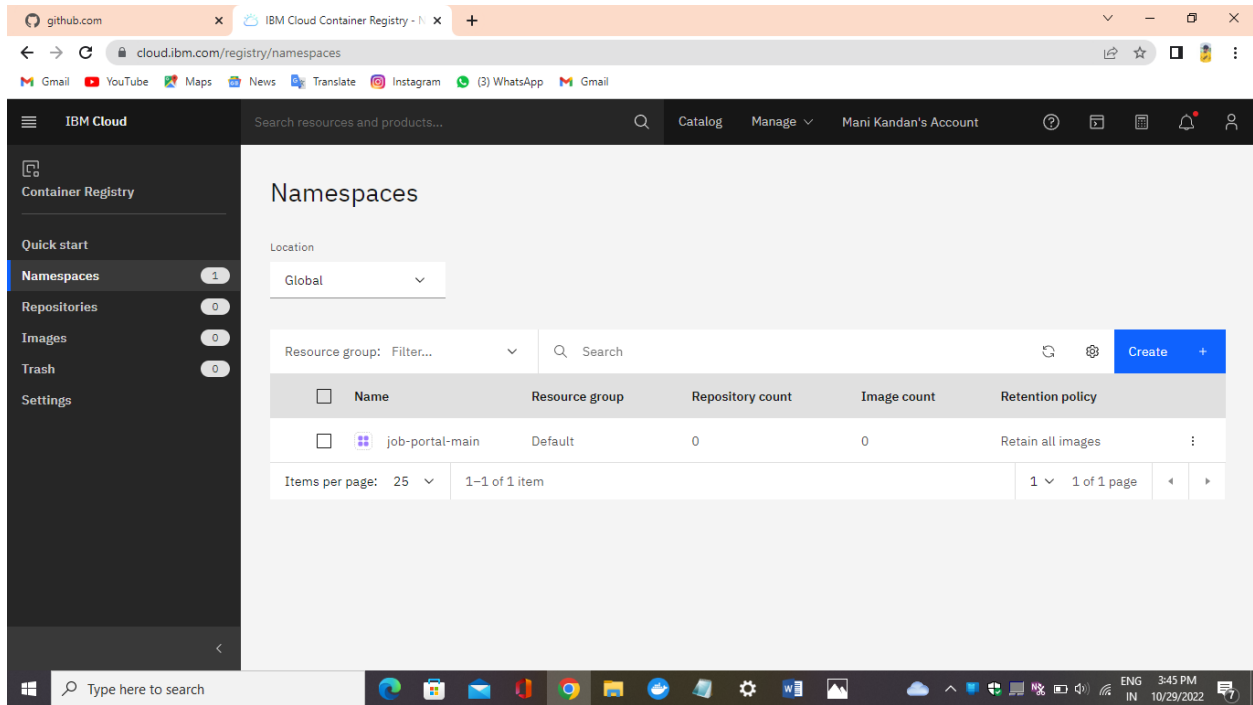
## 2. Create a docker file for the jobportal application and deploy it in docker desktop application .





3. Create a IBM container registry and deploy helloworld app or jobportalapp .





cloud.ibm.com/registry/repos

IBM Cloud

Search resources and products...

Catalog Manage capd6 ibm's Account

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0


Settings

## Repositories

Location: Sydney

Search

Create

Name	Image count	Namespace	Last updated
 <b>test</b> au.icr.io/job-portal-main/test	1	job-portal-main	6 days ago

Items per page: 25 1-1 of 1 item

cloud.ibm.com/registry/start

IBM Cloud

Search resources and products...

Catalog Manage capd6 ibm's Account

Container Registry

Quick start

Namespaces 1

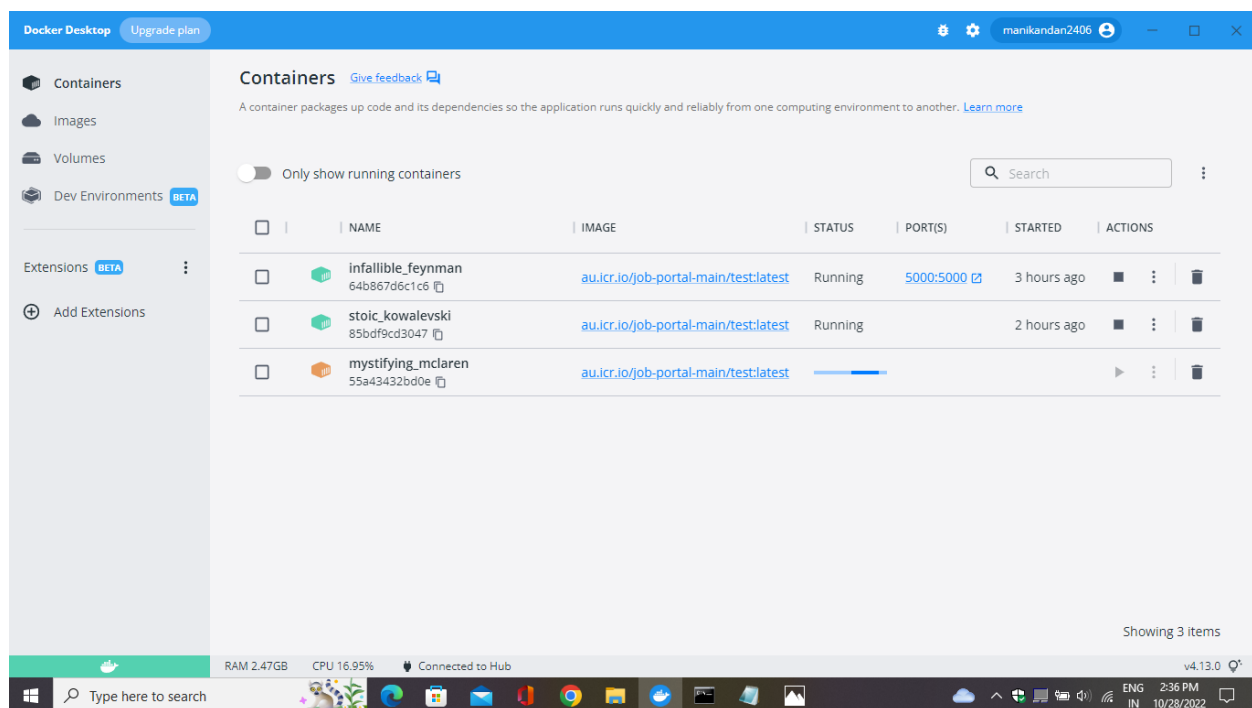
Repositories 1

Images 1

Trash 0

Settings

1. Log your local Docker daemon into the IBM Cloud Container registry.  
`ibmcloud cr login`
2. Pull a test image from Docker Hub.  
`docker pull hello-world`
3. Choose a repository and tag by which you can identify the image. Use the same repository and tag for the rest of this Quick Start.  
`docker tag hello-world au.icr.io/<my_namespace>/<my_repository>:<my_tag>`
4. Push the image.  
`docker push au.icr.io/<my_namespace>/<my_repository>:<my_tag>`
5. Verify that your image is in your private registry.  
`ibmcloud cr image-list`





4. Create a kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image an also expose the same app to run in nodeport .

The screenshot shows the IBM Cloud 'Create a Cluster' page. The browser tabs include 'CApD-Kushboo/deployment:yan' and 'Create a Cluster - IBM Cloud'. The URL is 'cloud.ibm.com/kubernetes/catalog/create'. The page features a 'Kubernetes cluster' title with 'Author: IBM' and links to 'Docs' and 'API docs'. There are 'Create' and 'About' tabs. A banner for 'Red Hat OpenShift' is present. The 'Plan details' section includes a 'Pricing plan' dropdown set to 'Free'. A 'Kubernetes version' section is at the bottom. On the right, a 'Summary' sidebar shows 'United States', 'Kubernetes cluster', '1 Worker node' (Free - 2 vCPUs, 4GB RAM, Virtual - shared, Ubuntu 18), 'Total estimated cost' (Free/mo), and an 'Add to estimate' button. The Windows taskbar at the bottom shows the time as 4:54 PM on 10/29/2022.

The screenshot shows the IBM Cloud 'Overview' page for a cluster named 'mycluster-free'. The browser tabs include 'github.com' and 'mycluster-free - IBM Cloud'. The URL is 'cloud.ibm.com/kubernetes/clusters/cdeevuef0sgqo7ua2ju0/overview'. The page displays a warning: '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.' The 'Overview' sidebar lists 'Worker nodes', 'Worker pools', and 'DevOps' (marked as 'New'). The main content area shows four status boxes: 'Node status' (1 of 1 Normal), 'Add-on status' (0 of 0 Normal), 'Master status' (Normal), and 'Ingress status' (Unknown). Below these is a 'Details' section with fields: 'Cluster ID' (cdeevuef0sgqo7ua2ju0), 'Version' (1.24.7\_1542), 'Infrastructure' (Classic), 'Zones' (Milan 01), 'Created' (29/10/2022, 14:48), 'Resource group' (Default), and 'Image security enforcement' (Disable button). The Windows taskbar at the bottom shows the time as 3:46 PM on 10/29/2022.

github.com x mycluster-free - IBM Cloud x mycluster-free - Kubernetes Dashboard x +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdeevuef0sgqo7ua2ju0/service/#/clusterrolebinding?namespace=default

Gmail YouTube Maps News Translate Instagram (3) WhatsApp Gmail

kubernetes default Search

Cluster > Cluster Role Bindings

Config Maps (N)  
Persistent Volume Claims (N)  
Secrets (N)  
Storage Classes  
Cluster  
Cluster Role Bindings  
Cluster Roles  
Events (N)  
Namespaces  
Network Policies (N)  
Nodes  
Persistent Volumes  
Role Bindings (N)  
Roles (N)

### Cluster Role Bindings

Name	Created ↑
ibm-admin	3 minutes ago
ibm-k8s-ingress	18 minutes ago
ibm-ingress	18 minutes ago
metrics-server:system:auth-delegator	49 minutes ago
system:metrics-server	49 minutes ago
kubernetes-dashboard	49 minutes ago
system:coredns-autoscaler	51 minutes ago
system:coredns	51 minutes ago

Type here to search

ENG IN 3:49 PM 10/29/2022

github.com x mycluster-free - IBM Cloud x mycluster-free - Kubernetes Dashboard x +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdeevuef0sgqo7ua2ju0/service/#/service?namespace=default

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kubernetes default Search

Service > Services

Deployments  
Jobs  
Pods  
Replica Sets  
Replication Controllers  
Stateful Sets  
Service  
Ingresses (N)  
Ingress Classes  
Services (N)  
Config and Storage  
Config Maps (N)  
Persistent Volume Claims (N)  
Secrets (N)  
Storage Classes

### Services

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created ↑
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	55 minutes ago

Type here to search

ENG IN 3:50 PM 10/29/2022

github.com x mycluster-free - IBM Cloud x +

cloud.ibm.com/kubernetes/clusters/cdeevuef0sgqo7ua2ju0/nodes

Gmail YouTube Maps News Translate Instagram (3) WhatsApp Gmail

IBM Cloud Search resources and products... Catalog Manage Mani Kandan's Account ? ? ? ? ?

Clusters / mycluster-free Normal Expires in 30 days Add tags

Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Pool: Filter... Search Add

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	00000004	Normal	default	Milan 01	10.144.212.112	169.51.207.238	1.24.6_1541

Items per page: 25 1-1 of 1 item 1 1 of 1 page

Type here to search

ENG IN 3:46 PM 10/29/2022

Docker Desktop Update to latest manikandan2406

Containers Images Volumes Dev Environments BETA

Extensions BETA Add Extensions

Images on disk Last refresh: about 7 hours ago 11 Images 1.12 GB total size 0 Bytes / 1.12 GB in use Clean up

Images Give feedback

LOCAL REMOTE REPOSITORIES

Search

☐ In use only

NAME	TAG	IMAGE ID	CREATED	SIZE
docker/desktop-storage-p...	v2.0	99f89471f470	over 1 year ago	41.85 MB
docker/desktop-vpnkit-co...	v2.0	8c2c38aa676e	over 1 year ago	21.03 MB
h docker/desktop-vpnkit-controller	kubernetes-v1.25.2-c...	09d7e1dbc2c4	about 1 month ago	363.32 MB
jobportal	latest	4eaabf85e1e2	less than a minute ago	1.08 GB
k8s.gcr.io/coredns	v1.9.3	5185b96f0bec	5 months ago	48.8 MB
k8s.gcr.io/etcd	3.5.4-0	a8a176a5d5d6	5 months ago	299.52 MB
k8s.gcr.io/kube-apiserver	v1.25.2	97801f839490	about 1 month ago	127.73 MB
k8s.gcr.io/kube-controller...	v1.25.2	dbfceb93c69b	about 1 month ago	117.1 MB

RAM 2.29GB CPU 0.96% Connected to Hub v4.13.0

Type here to search

ENG IN 5:00 PM 10/29/2022