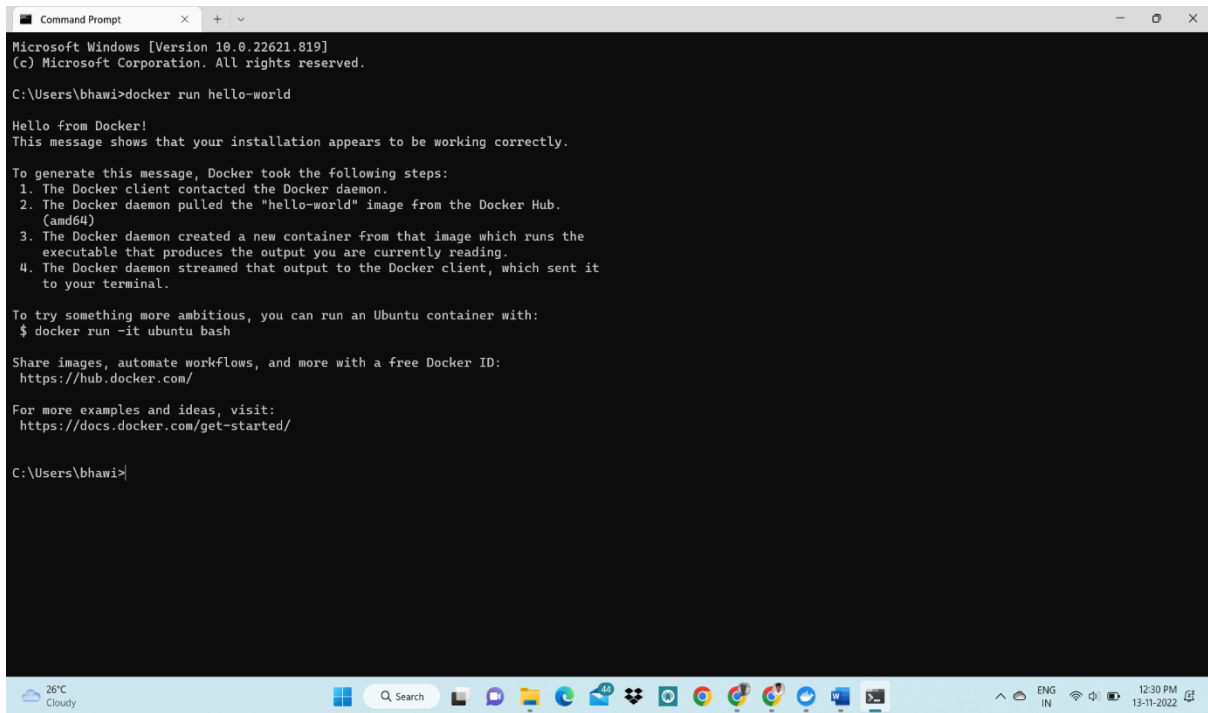


DEPLOYEMENT OF APP IN IBM-CLOUD

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



```
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\bhawi>docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

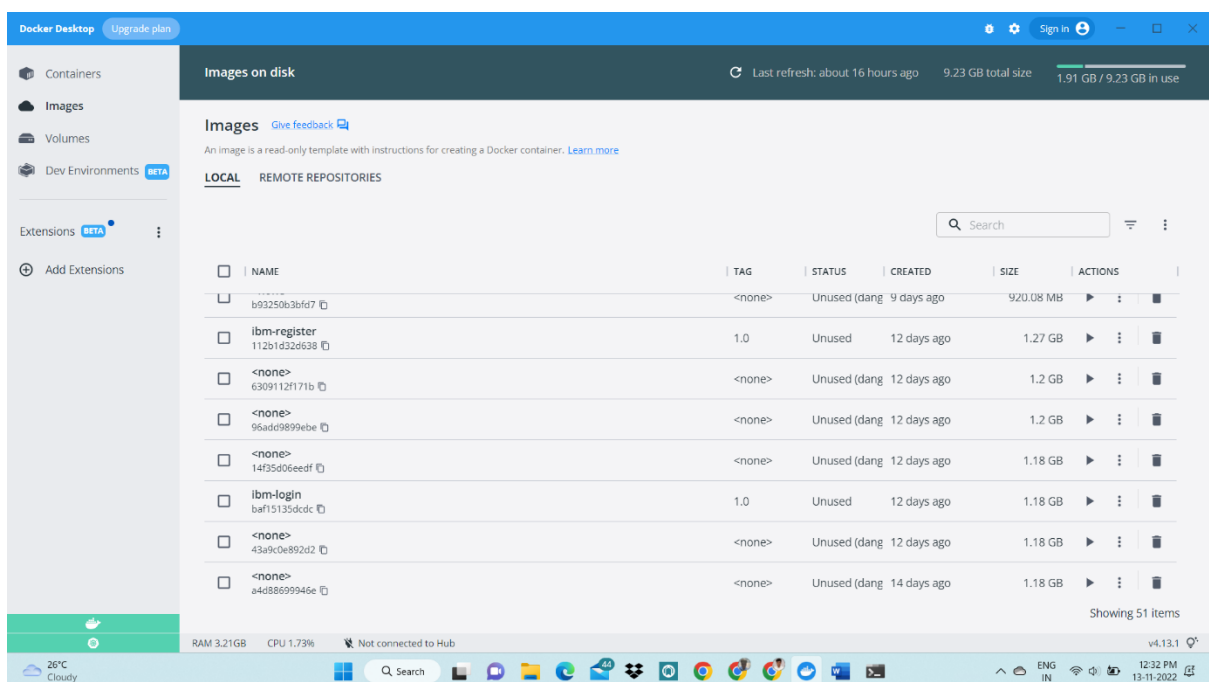
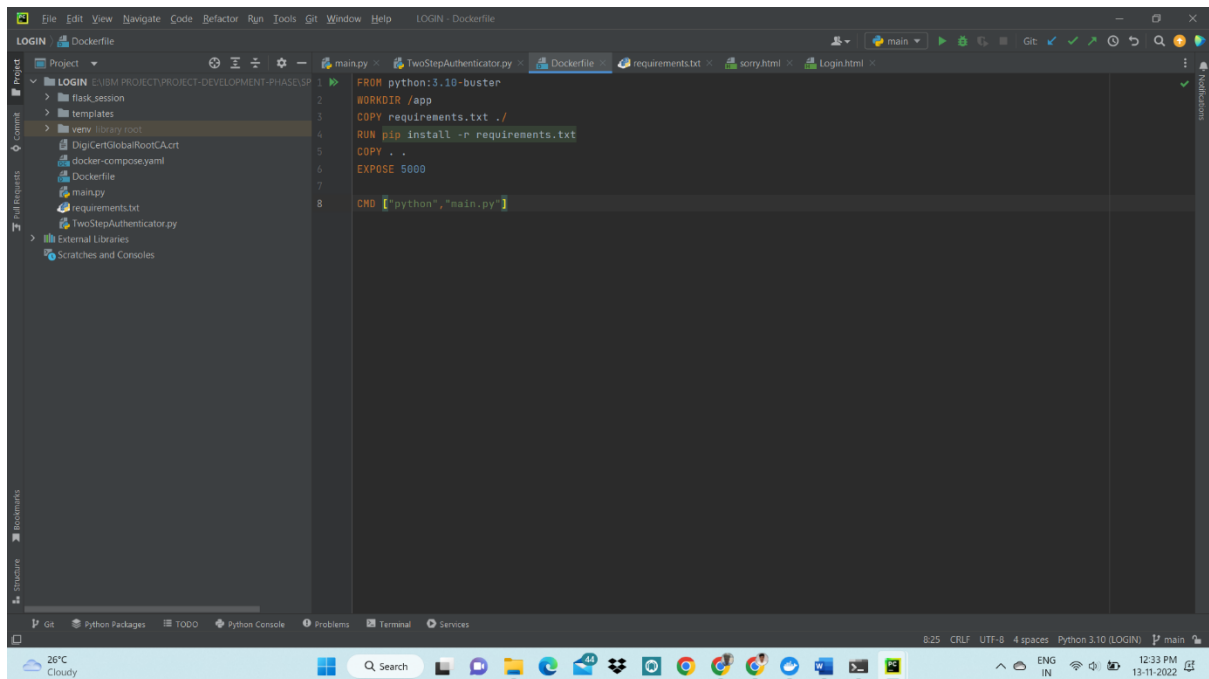
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

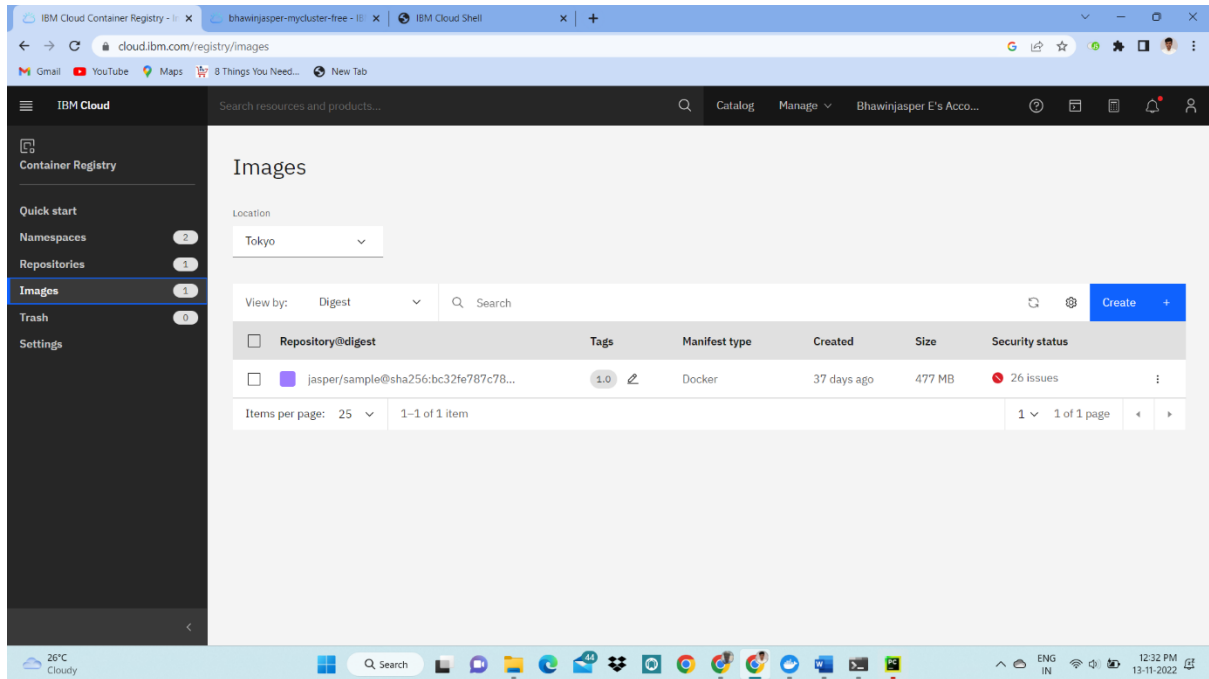
C:\Users\bhawi>
```

2.Create a docker file for the job portal application and deploy it in Docker desktop

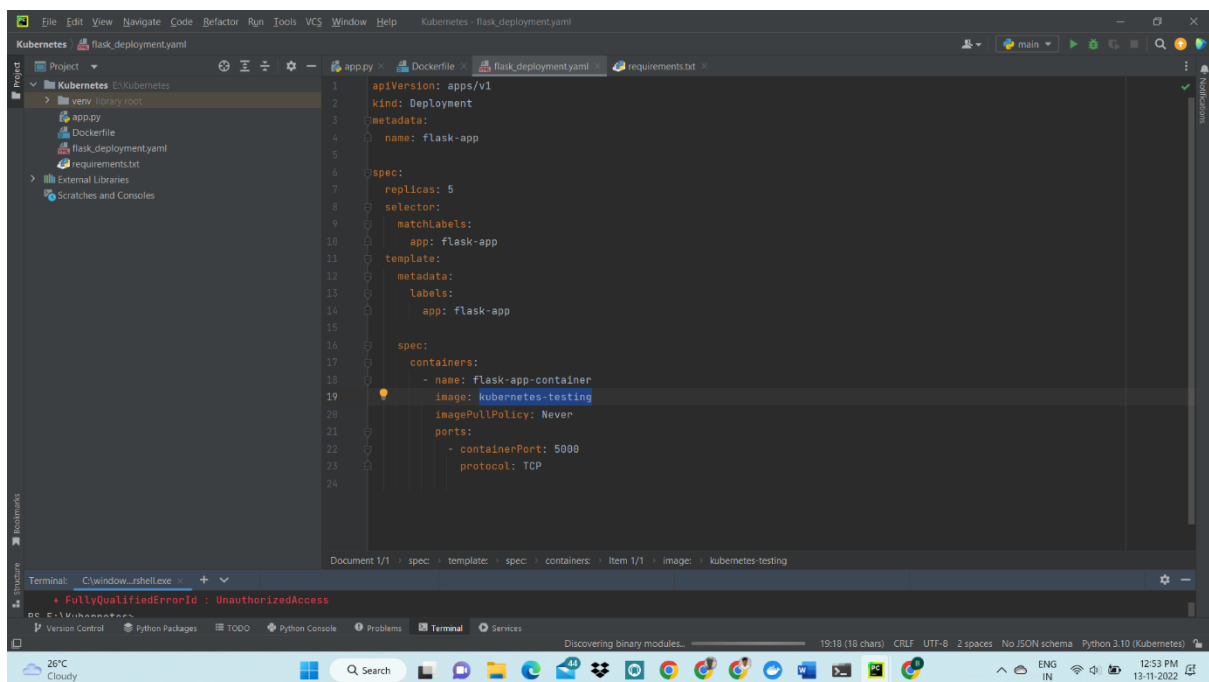
application.



3.Create a IBM container registry and deploy hello world app or job portal app.



4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.



```
IBM Cloud Container Registry - X | bhawinjasper-mycluster-free - IB | IBM Cloud Shell | +
cloud.ibm.com/shell
Gmail YouTube Maps 8 Things You Need... New Tab
IBM Cloud Shell Location: Frankfurt Change
Session 1 x + Current account: Bhawinjasper E's Account
Authenticating...
Credentials were rejected.
Code: D0NDP660ZE, message: The credentials you entered for the user '713519CECS004@smartinternz.com' are incorrect.
Password
Authenticating...
Credentials were rejected.
Code: D0NDP660ZE, message: The credentials you entered for the user '713519CECS004@smartinternz.com' are incorrect.
Password
Authenticating...
OK
Targeted account Bhawinjasper E's Account (702af44240f54d66ba7adeb6fb61d474)
Targeted resource group Default
Targeted region eu-de

API endpoint: https://cloud.ibm.com
Region: eu-de
User: 713519CECS004@smartinternz.com
Account: Bhawinjasper E's Account (702af44240f54d66ba7adeb6fb61d474)
Resource group: Default
CF API endpoint:
Org:
Space:
713519CECS004@cloudshell:~$ ibmcloud ks cluster config --cluster cdo95kef0asp0gh0trng
OK
The configuration for cdo95kef0asp0gh0trng was downloaded successfully.
Added context for cdo95kef0asp0gh0trng to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.
713519CECS004@cloudshell:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
10.144.180.2 Ready <none> 14m v1.24.7-IKS
713519CECS004@cloudshell:~$
```

```
IBM Cloud Container Registry - X | bhawinjasper-mycluster-free - IB | IBM Cloud Shell | +
cloud.ibm.com/shell
Gmail YouTube Maps 8 Things You Need... New Tab
IBM Cloud Shell Location: Frankfurt Change
Session 1 x + Current account: Bhawinjasper E's Account
Authenticating...
Credentials were rejected.
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Password
Authenticating...
Credentials were rejected.
Code: D0NDP660ZE, message: The credentials you entered for the user '713519CECS004@smartinternz.com' are incorrect.
Password
Authenticating...
OK
Targeted account Bhawinjasper E's Account (702af44240f54d66ba7adeb6fb61d474)
Targeted resource group Default
Targeted region eu-de

API endpoint: https://cloud.ibm.com
Region: eu-de
User: 713519CECS004@smartinternz.com
Account: Bhawinjasper E's Account (702af44240f54d66ba7adeb6fb61d474)
Resource group: Default
CF API endpoint:
Org:
Space:
713519CECS004@cloudshell:~$ ibmcloud ks cluster config --cluster cdo95kef0asp0gh0trng
OK
The configuration for cdo95kef0asp0gh0trng was downloaded successfully.
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713519CECS004@cloudshell:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
10.144.180.2 Ready <none> 14m v1.24.7-IKS
713519CECS004@cloudshell:~$
```

IBM Cloud Container Registry

bhawinjasper-mycluster-free

IBM Cloud Shell

cloud.ibm.com/kubernetes/clusters/cdo95kef0asp0sghtng/overview

GmailYouTubeMaps8 Things You Need...New Tab

IBM Cloud

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Clusters /

bhawinjasper-mycluster-free

Normal

Expires in 30 days

Add tags

Help

Kubernetes dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps

New

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.

Node status

1 of 1

Normal

Details

Add-on status

0 of 0

Normal

Details

Master status

Normal

Docs

Ingress status

Unknown

Docs

Details

Cluster ID

cdo95kef0asp0sghtng

Version

1.24.7_1542

Infrastructure

Classic

Zones

Milan 01

Created

11/13/2022, 12:16 PM

Resource group

Default

Image security enforcement

Enable

Node health

Worker node details

26°C Cloudy

Search

ENG IN

12:52 PM 13-11-2022