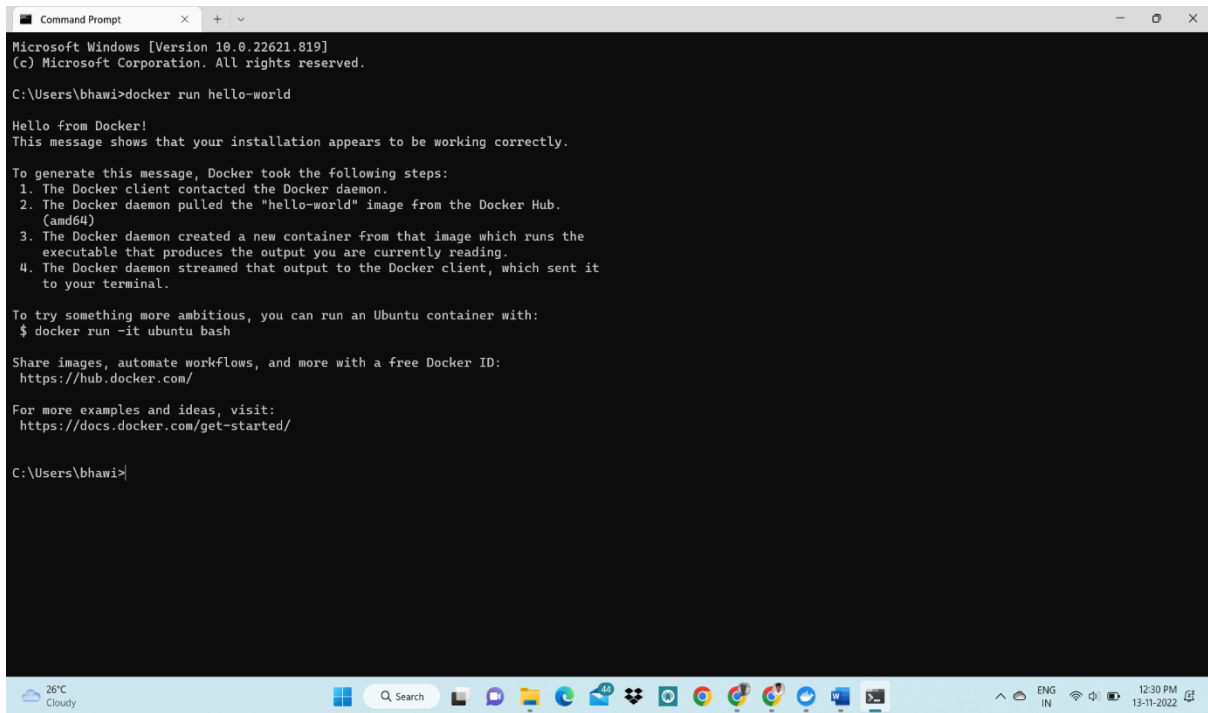


DEPLOYEMENT OF APP IN IBM-CLOUD

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



```
Command Prompt
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

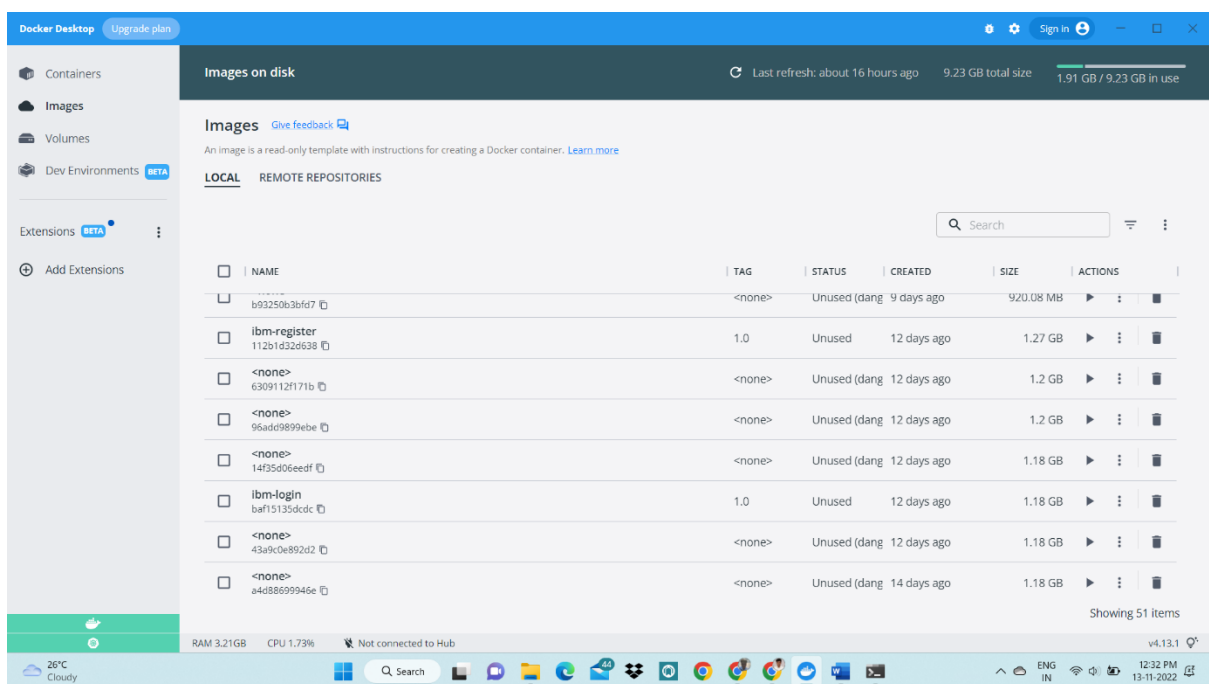
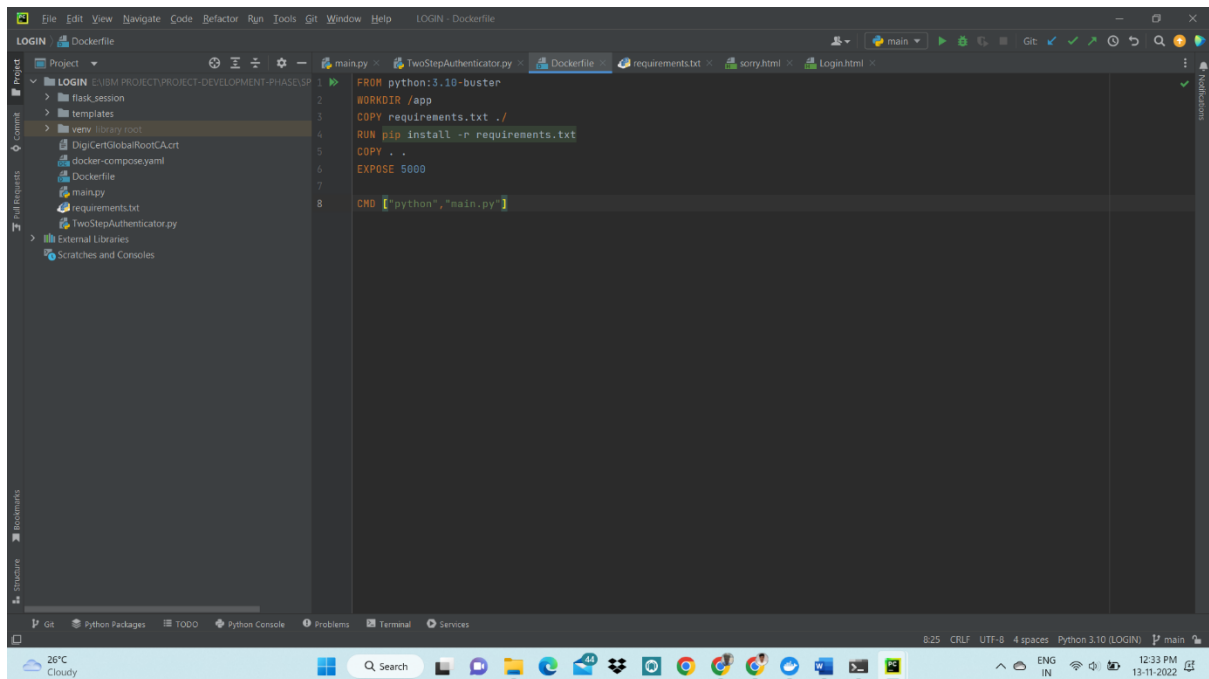
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

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

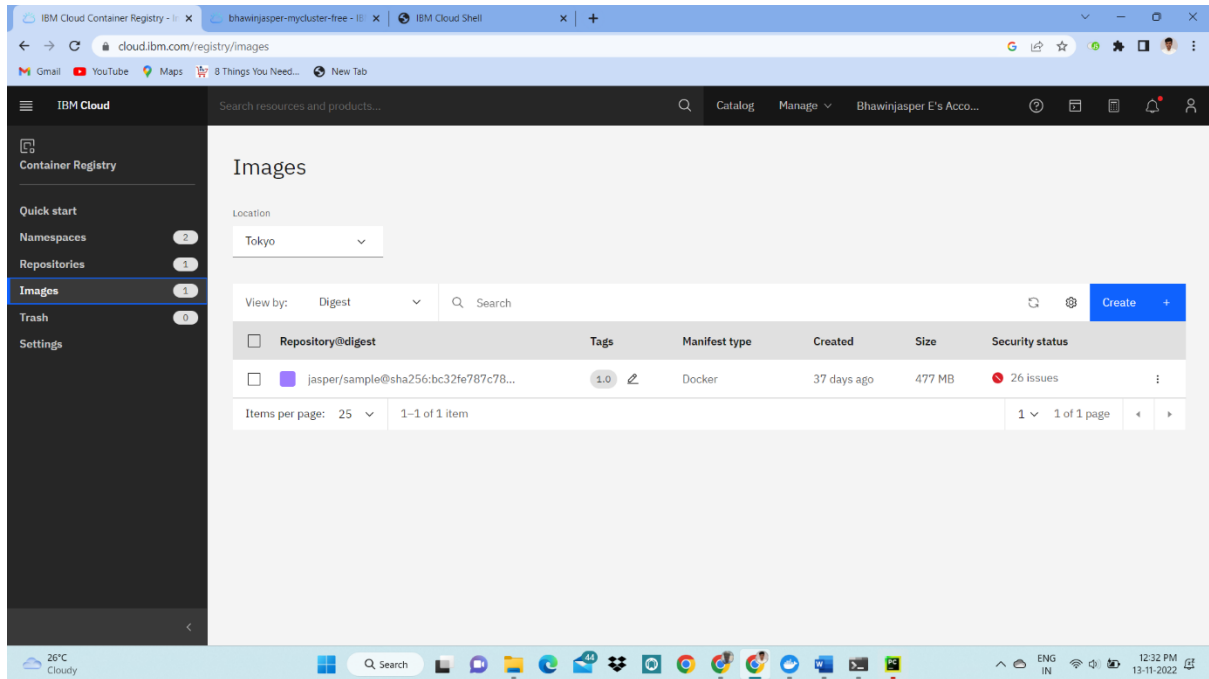
C:\Users\bhawi>
```

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

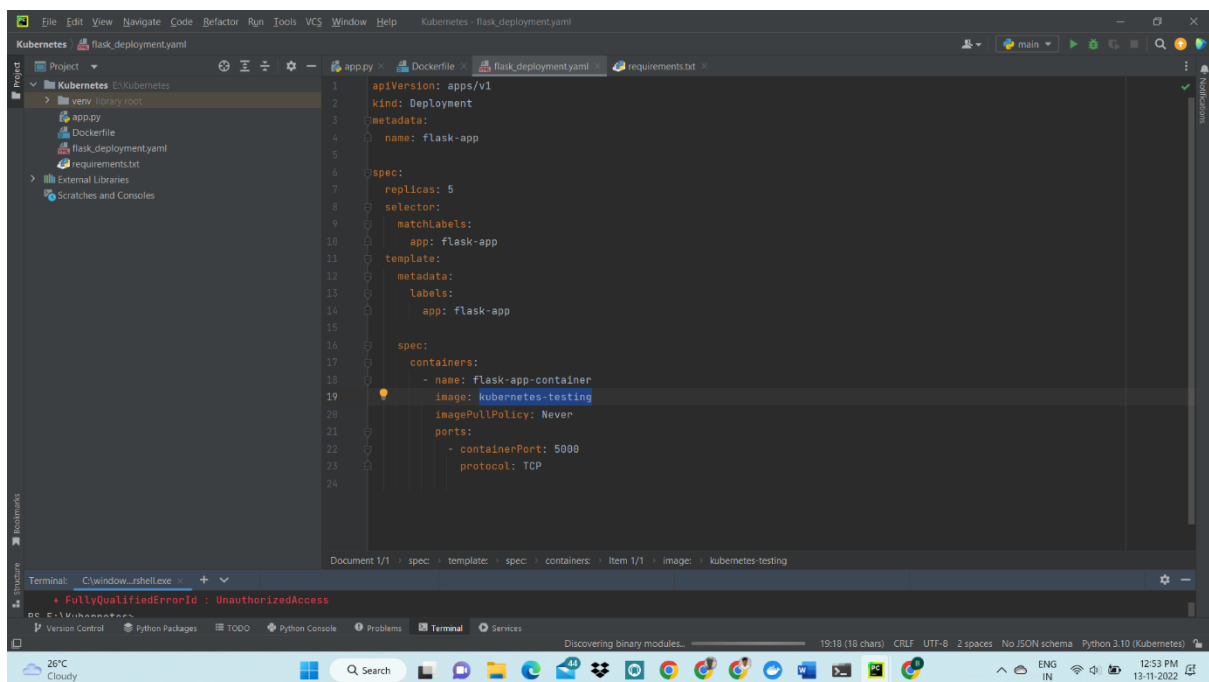
application.



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.

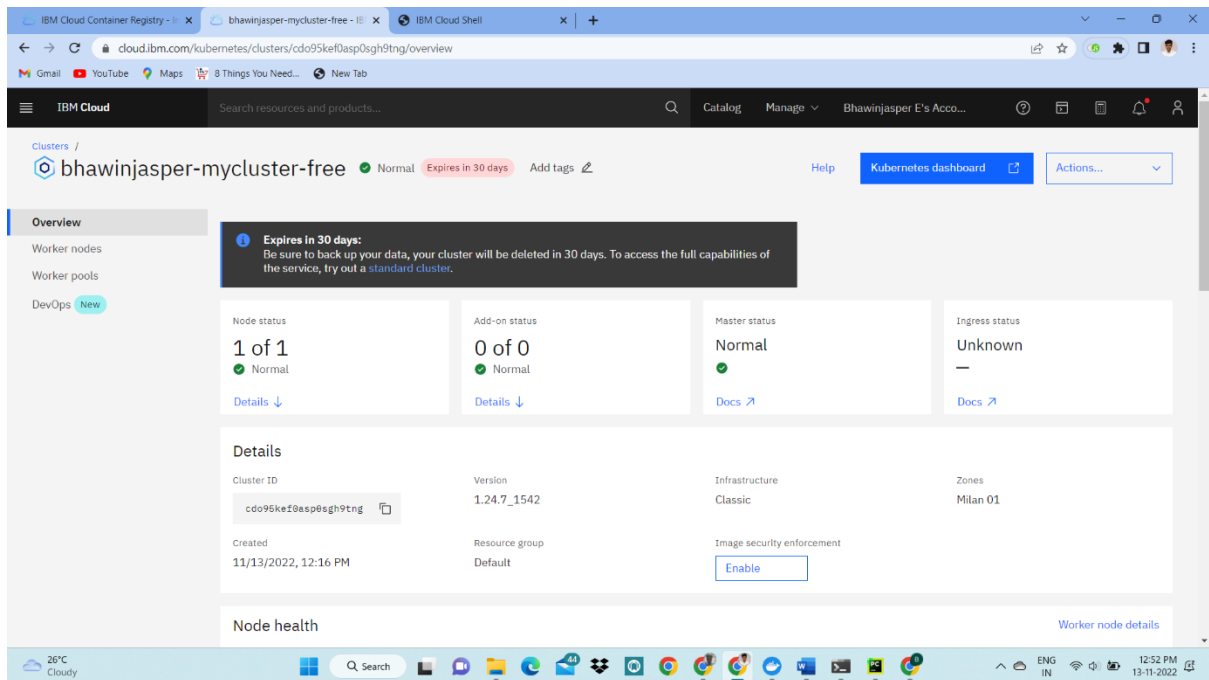


```
IBM Cloud Container Registry - X | bhawinjasper-mycluster-free - IB | IBM Cloud Shell | +
cloud.ibm.com/shell
Gmail YouTube Maps 8 Things You Need... New Tab
IBM Cloud Shell Location: Frankfurt Change
Session 1 x + Current account: Bhawinjasper E's Account
Authenticating...
Credentials were rejected.
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

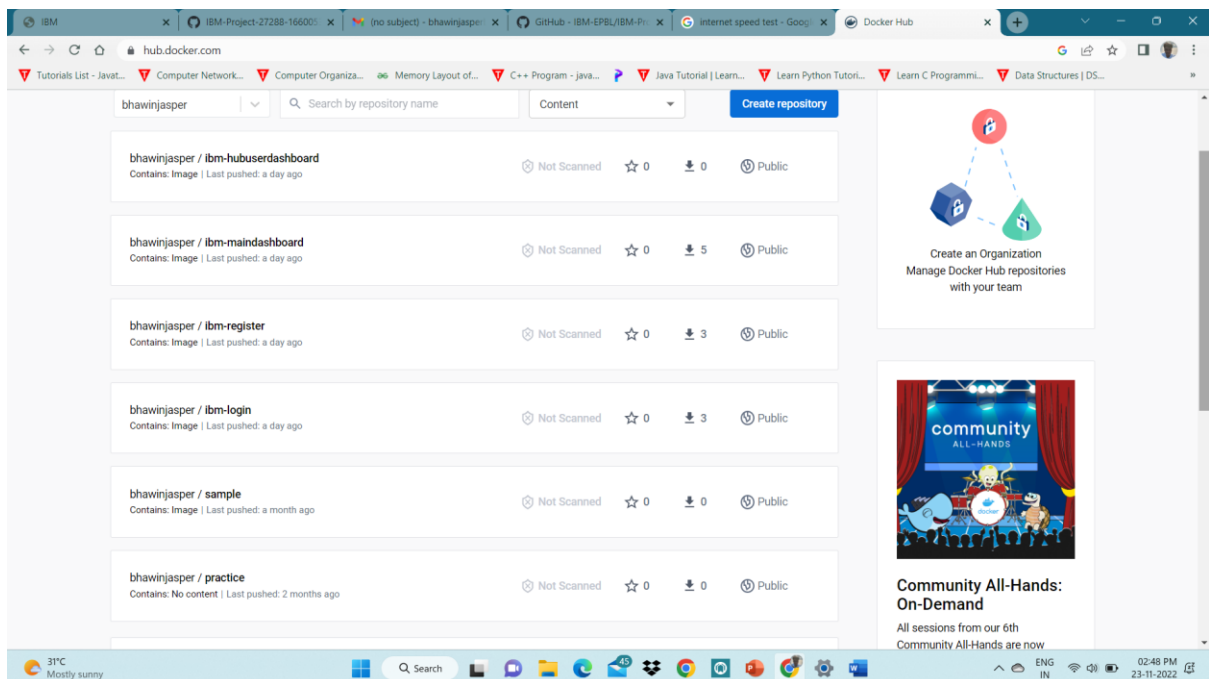
API endpoint: https://cloud.ibm.com
Region: eu-de
User: 713519CECS004@smartinternz.com
Account: Bhawinjasper E's Account (702af44240f54d66ba7adeb6fb61d474)
Resource group: Default
CF API endpoint:
Org:
Space:
713519CECS004@cloudshell:~$ ibmcloud ks cluster config --cluster cdo95kef0asp0gh0trng
OK
The 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.
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:~$
```



Docker image for Inventory Management system:



Docker Image Pull Command for Login Page: docker pull bhawinjasper/ibm-login

Docker Image Pull Command for Register Page: docker pull bhawinjasper/ibm-register

Docker Image Pull Command for MainDashBoard Page: docker pull bhawinjasper/ibm-maindashboard

Docker Image Pull Command for Hubuser DashBoard Page: docker pull bhawinjasper/ibm-hubuserdashboard