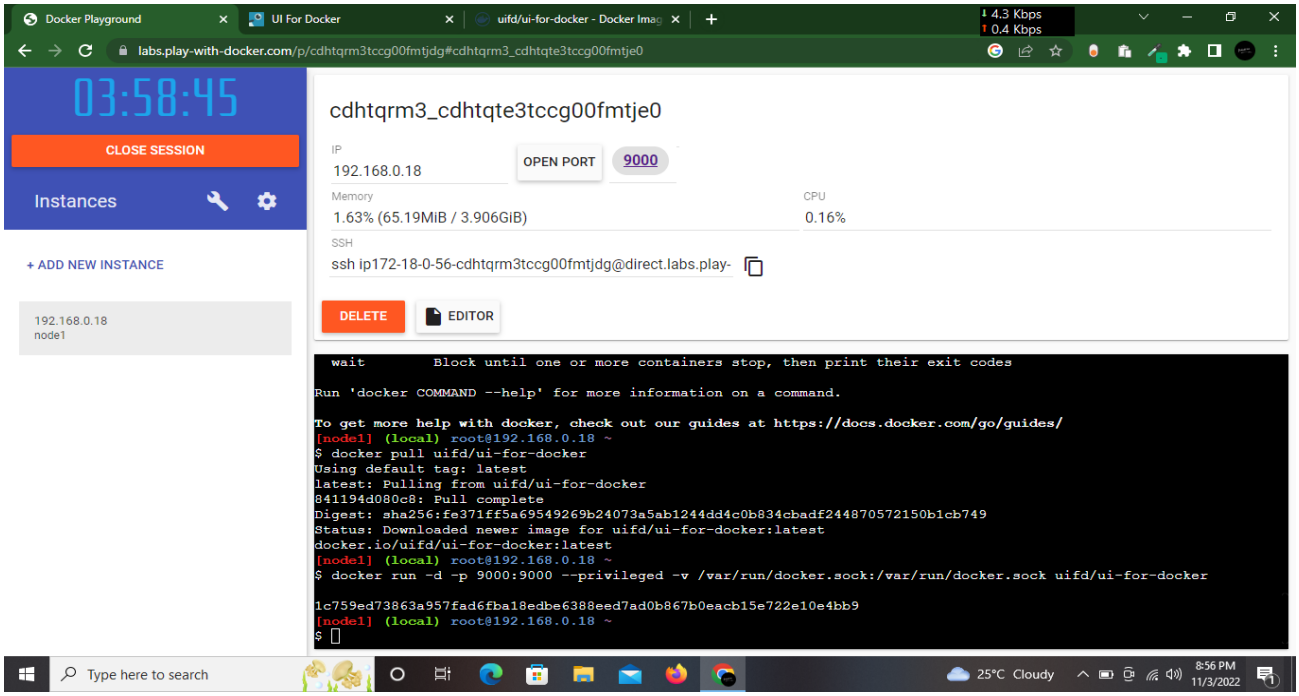
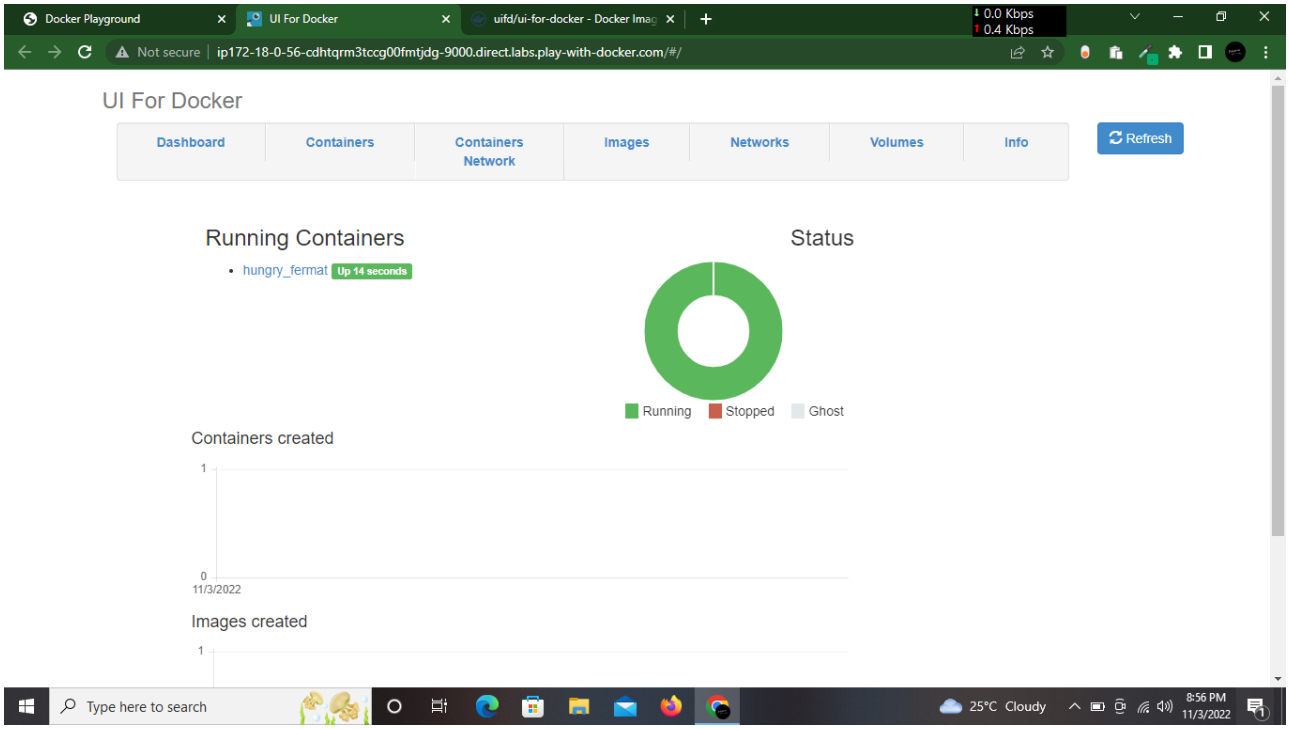
Assignment -4

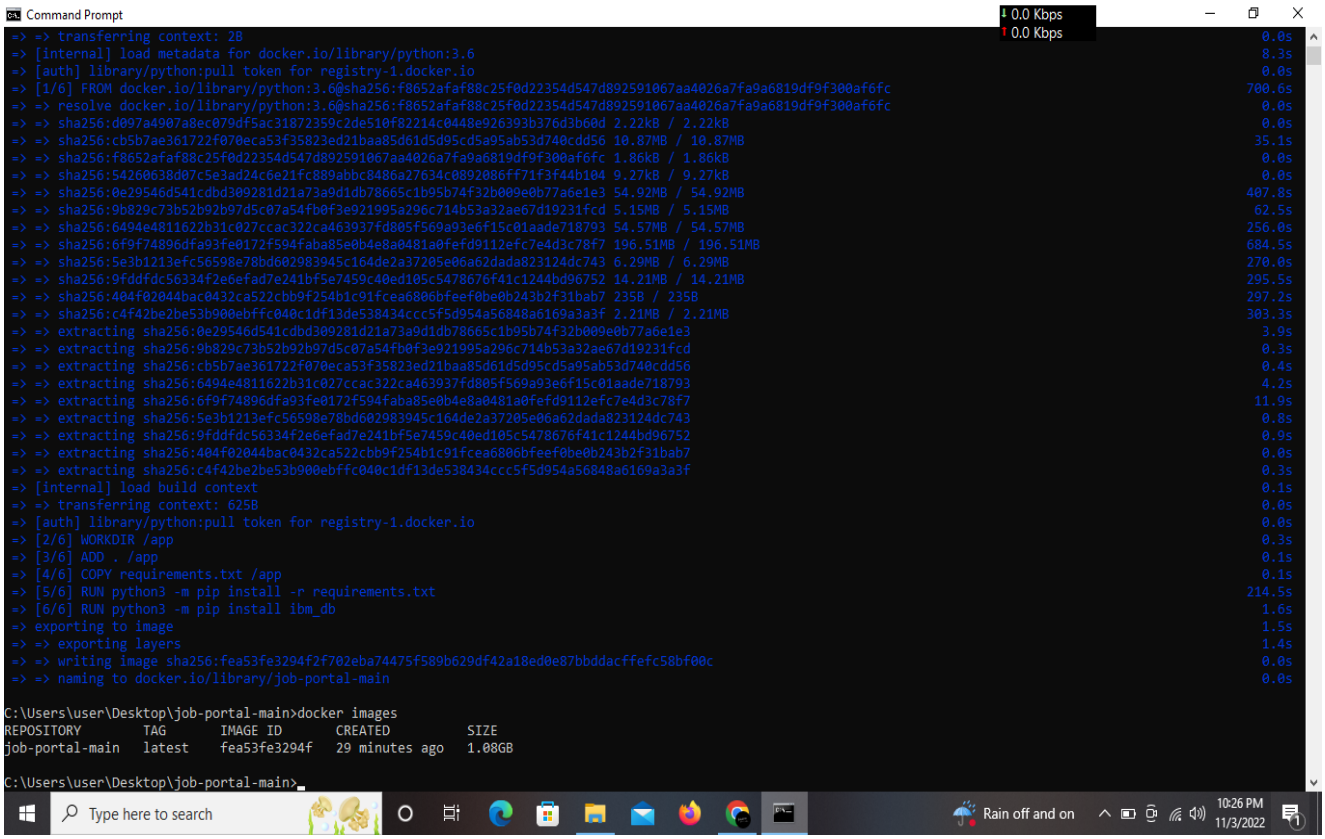
Docker and Kubernetes

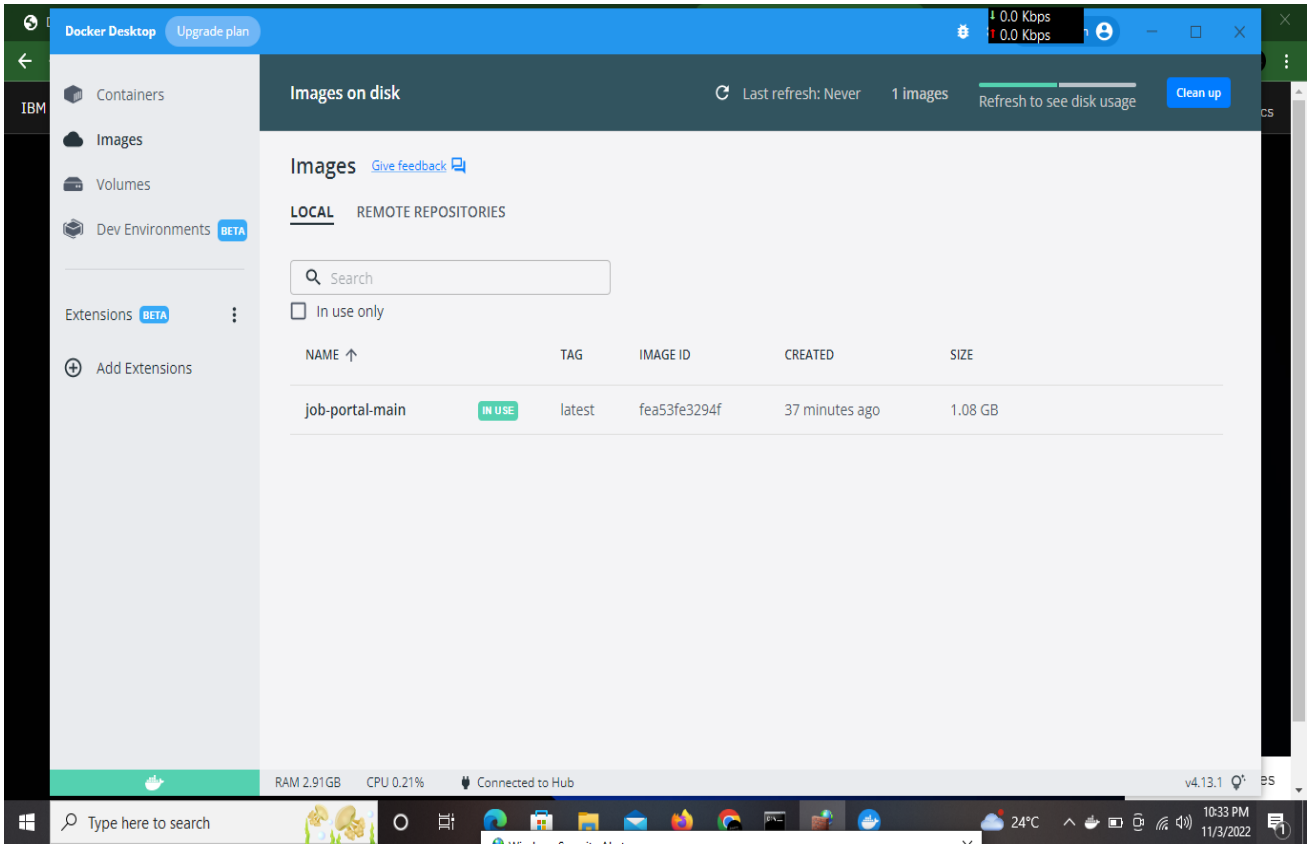
1.Pull an image from docker hub and run it in docker Playground.



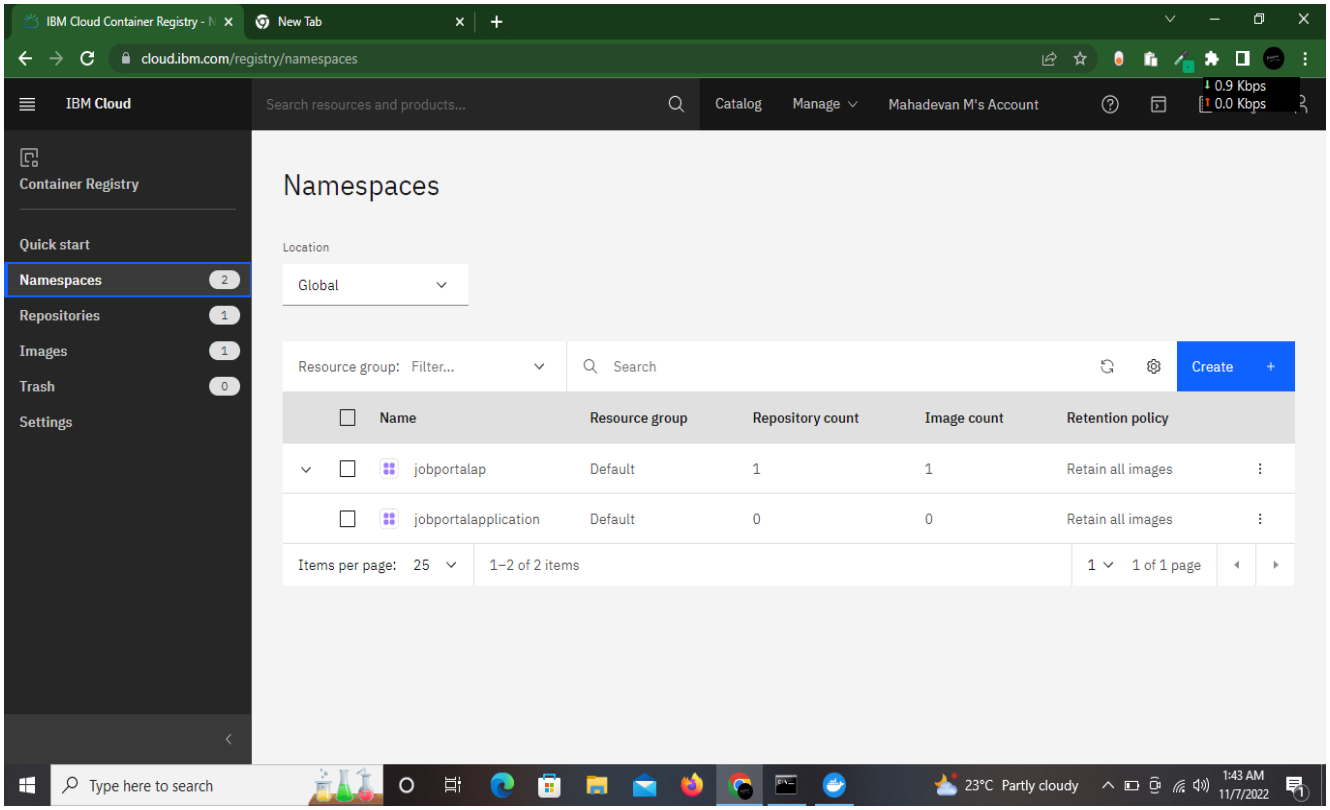


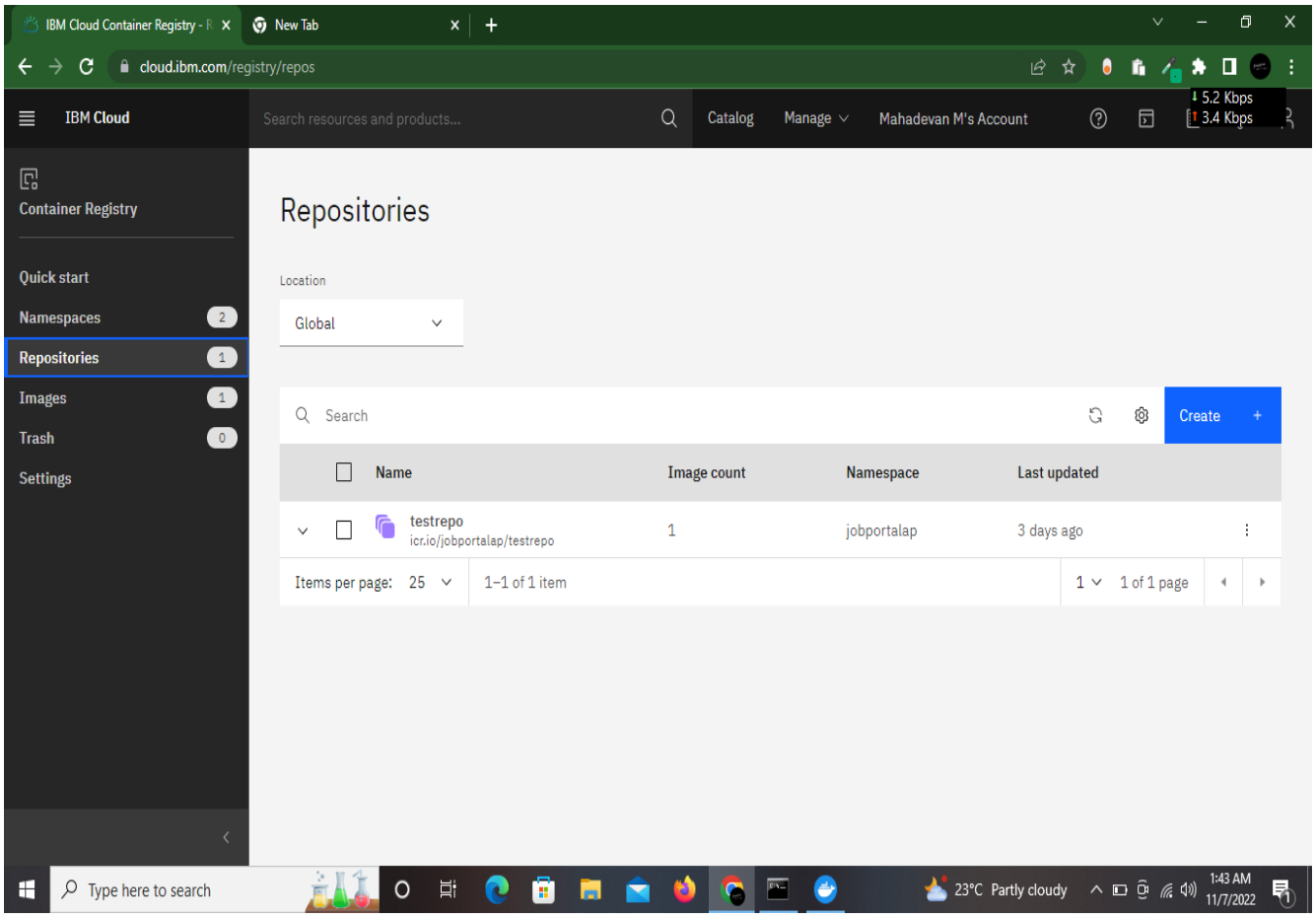
2.Create a docker file for the job portal application and deploy it in Docker desktop application

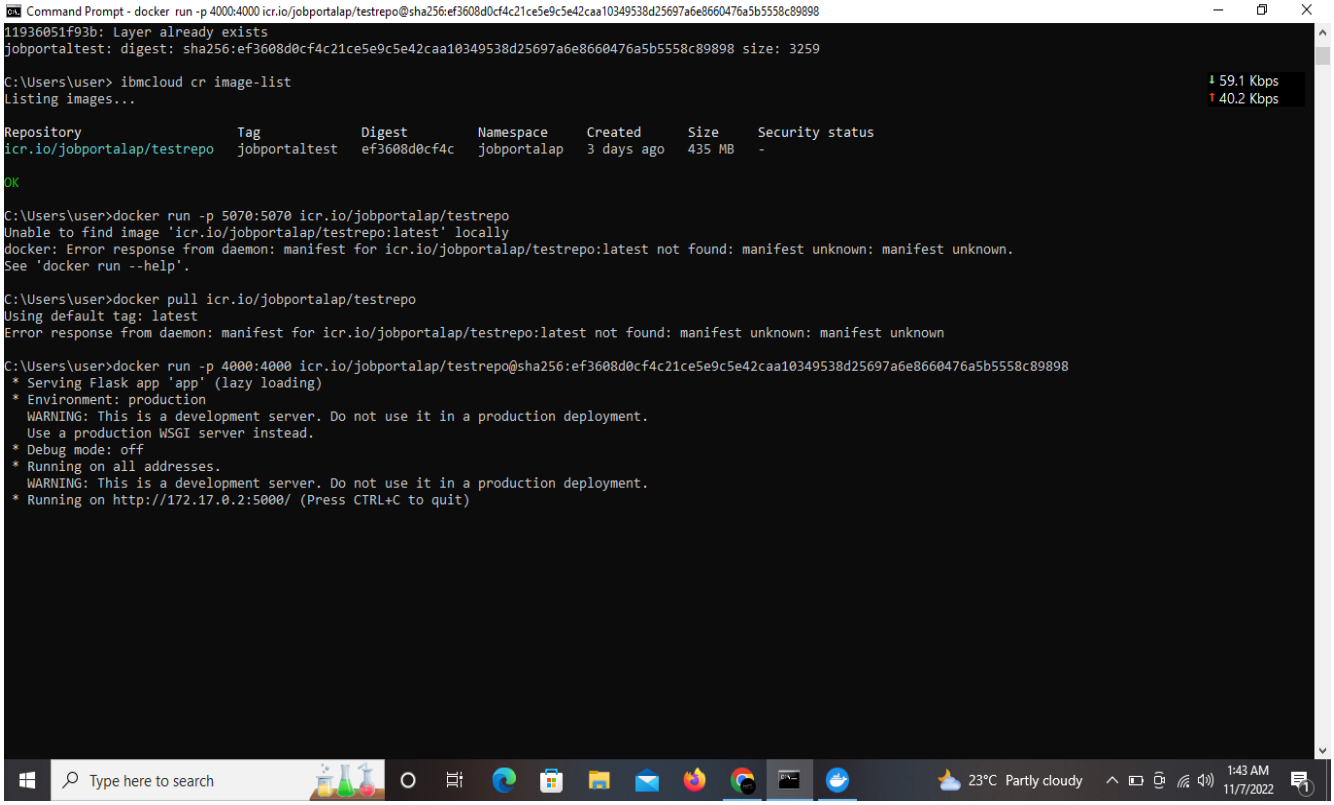




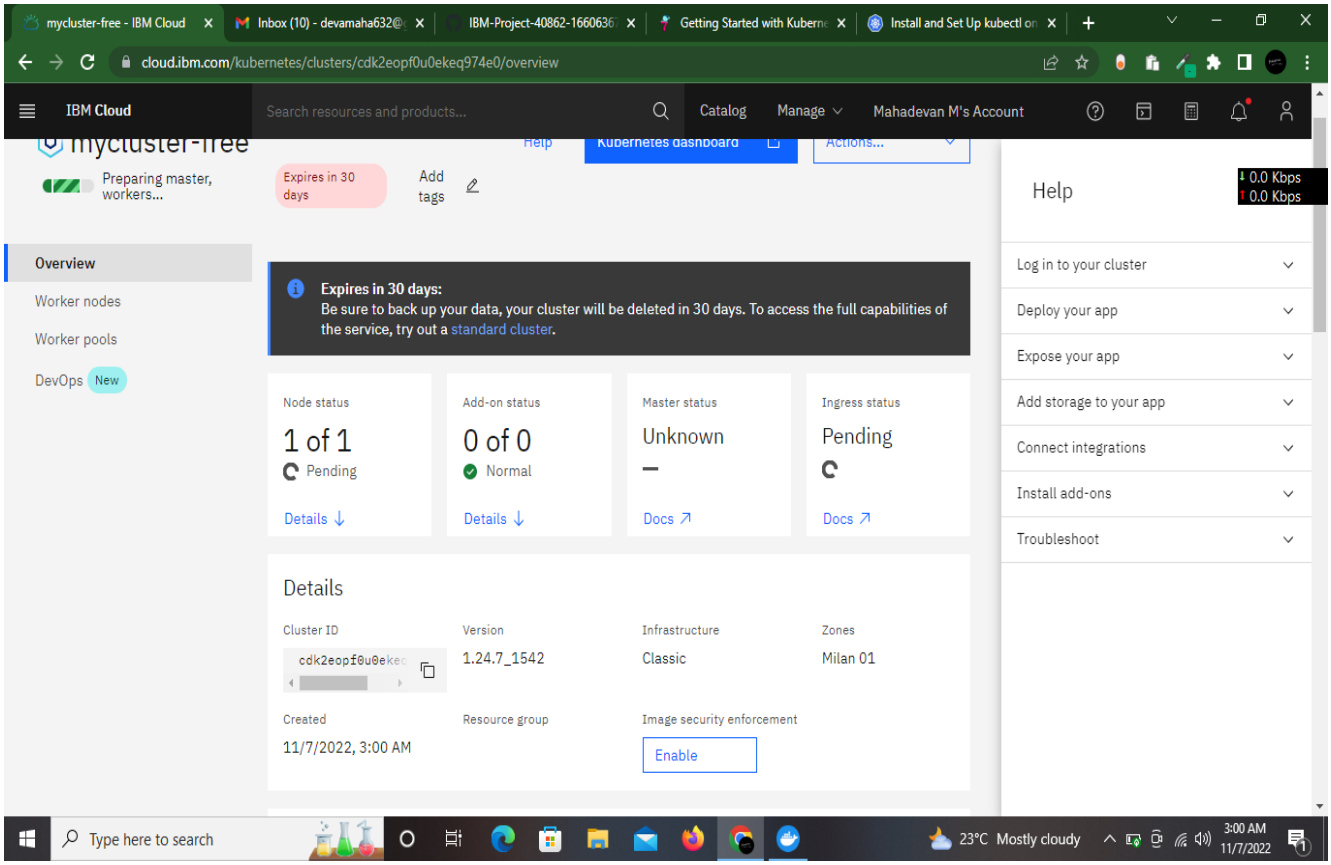
3.Create a IBM container registry and deploy helloword app

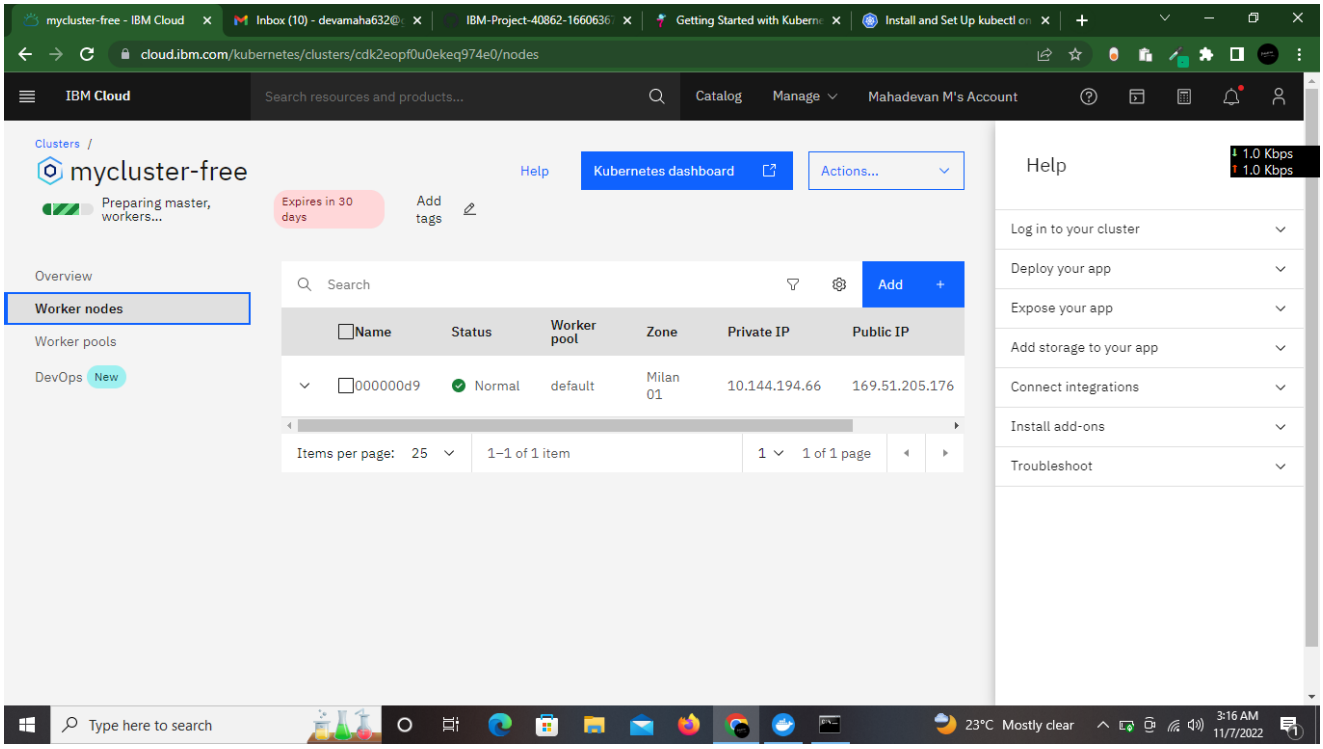

IBM Cloud Container Registry - N
New Tab
cloud.ibm.com/registry/namespaces
IBM Cloud
Search resources and products...
Catalog
Manage
Mahadevan M's Account
0.9 Kbps
0.0 Kbps
Container Registry
Quick start
Namespaces 2
Repositories 1
Images 1
Trash 0
Settings
Namespaces
Location
Global
Resource group: Filter...
Search
Create
Name
Resource group
Repository count
Image count
Retention policy
jobportalap
Default
1
1
Retain all images
jobportalapplication
Default
0
0
Retain all images
Items per page: 25
1–2 of 2 items
1
1 of 1 page
Type here to search
23°C Partly cloudy
1:43 AM
11/7/2022


IBM Cloud Container Registry - R
New Tab
cloud.ibm.com/registry/repos
IBM Cloud
Search resources and products...
Catalog
Manage
Mahadevan M's Account
5.2 Kbps
3.4 Kbps
Container Registry
Quick start
Namespaces 2
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Global
Search
Create
Name
Image count
Namespace
Last updated
testrepo
icr.io/jobportalap/testrepo
1
jobportalap
3 days ago
Items per page: 25
1–1 of 1 item
1
1 of 1 page
Type here to search
23°C Partly cloudy
1:43 AM
11/7/2022



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




mycluster-free - IBM Cloud
Inbox (10) - devamaha632@
IBM-Project-40862-1660636
Getting Started with Kuberne
Install and Set Up kubectl on
cloud.ibm.com/kubernetes/clusters/cdk2eopf0u0ekeq974e0/nodes
IBM Cloud
Search resources and products...
Catalog
Manage
Mahadevan M's Account
Clusters /
mycluster-free
Preparing master, workers...
Expires in 30 days
Add tags
Help
Kubernetes dashboard
Actions...
Overview
Worker nodes
Worker pools
DevOps New
Search
Add
Name
Status
Worker pool
Zone
Private IP
Public IP
000000d9
Normal
default
Milan 01
10.144.194.66
169.51.205.176
Items per page: 25
1–1 of 1 item
1
1 of 1 page
Help
1.0 Kbps
1.0 Kbps
Log in to your cluster
Deploy your app
Expose your app
Add storage to your app
Connect integrations
Install add-ons
Troubleshoot
Type here to search
23°C Mostly clear
3:16 AM
11/7/2022