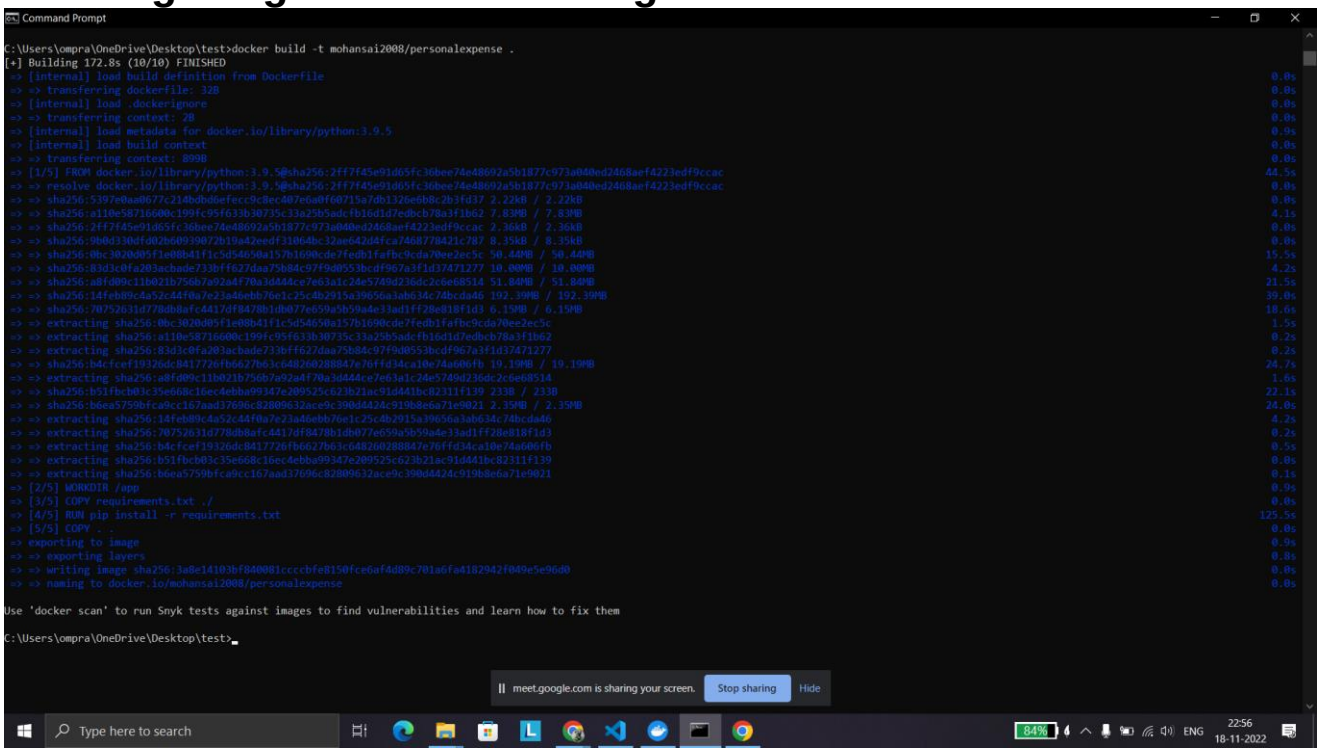
PROJECT DEPLOYMENT PHASE

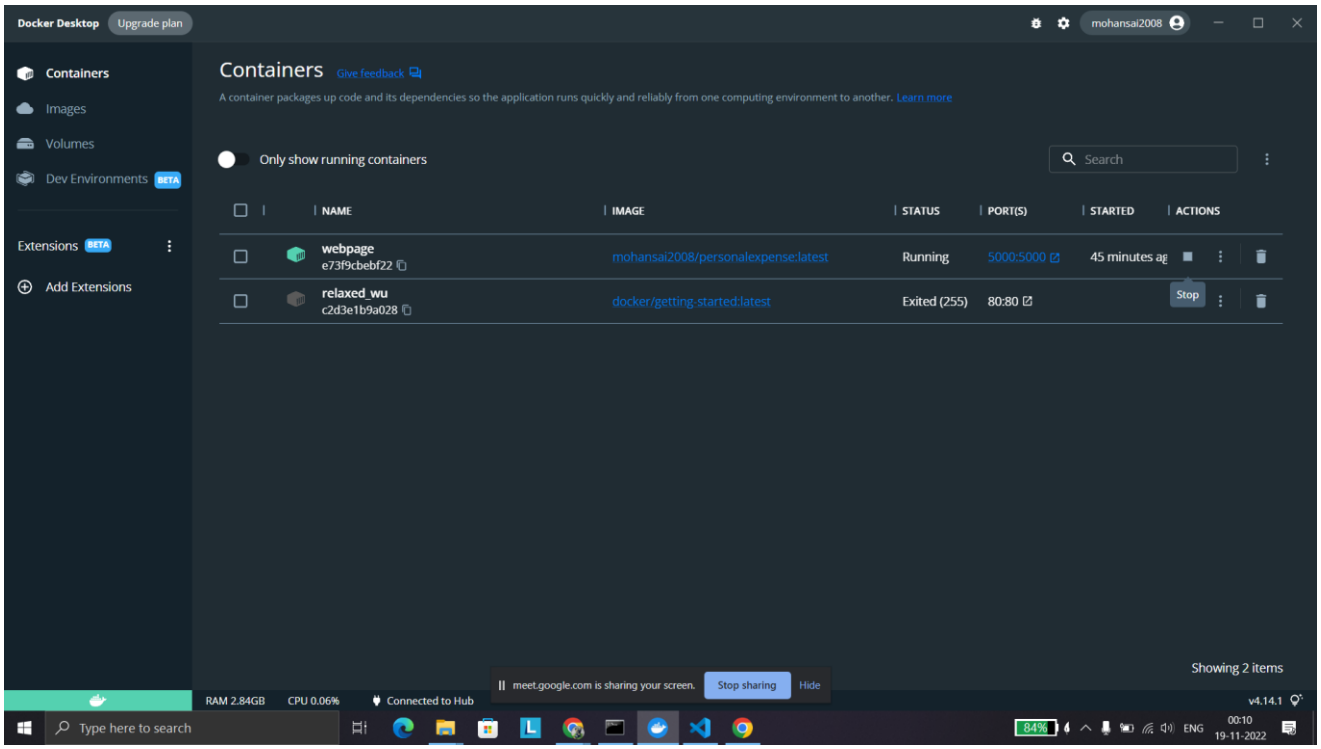
SPRINT - IV:

Team Id : PNT2022TMID26966
Project Name : PERSONAL EXPENSE TRACKER

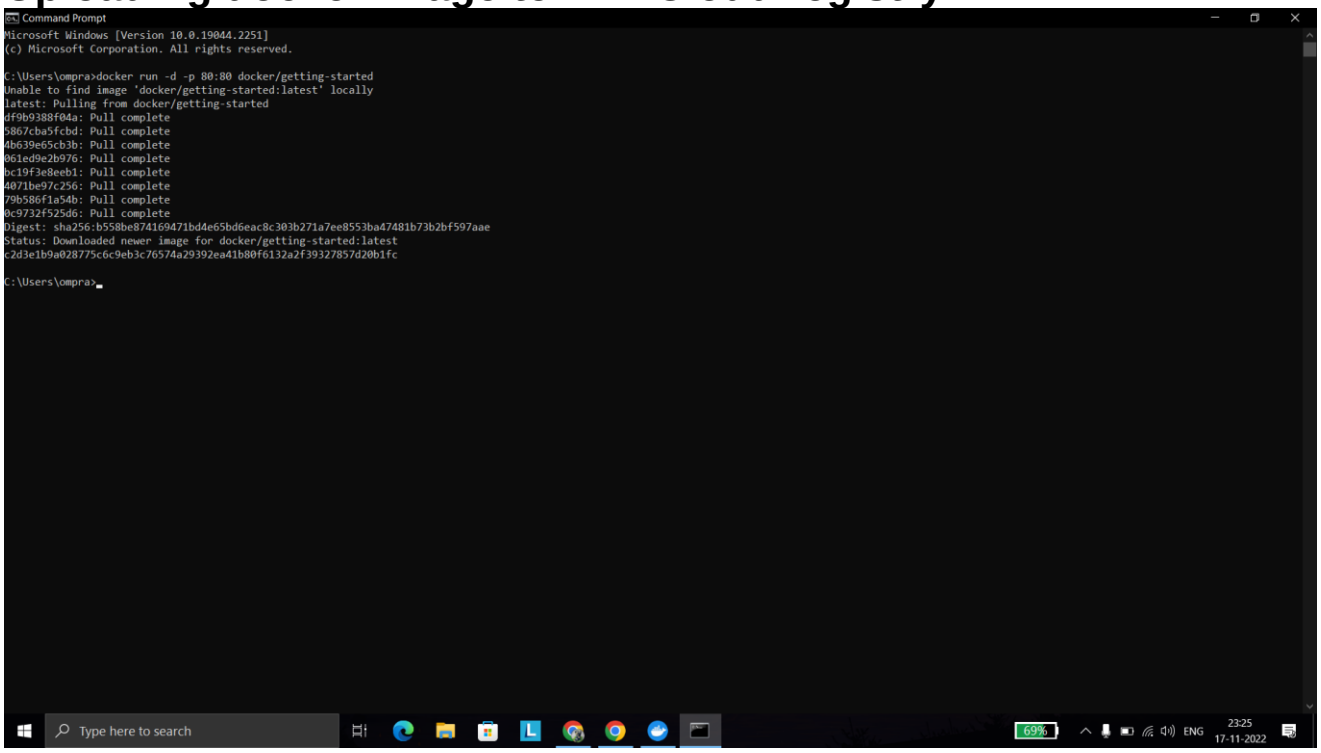
Docker :

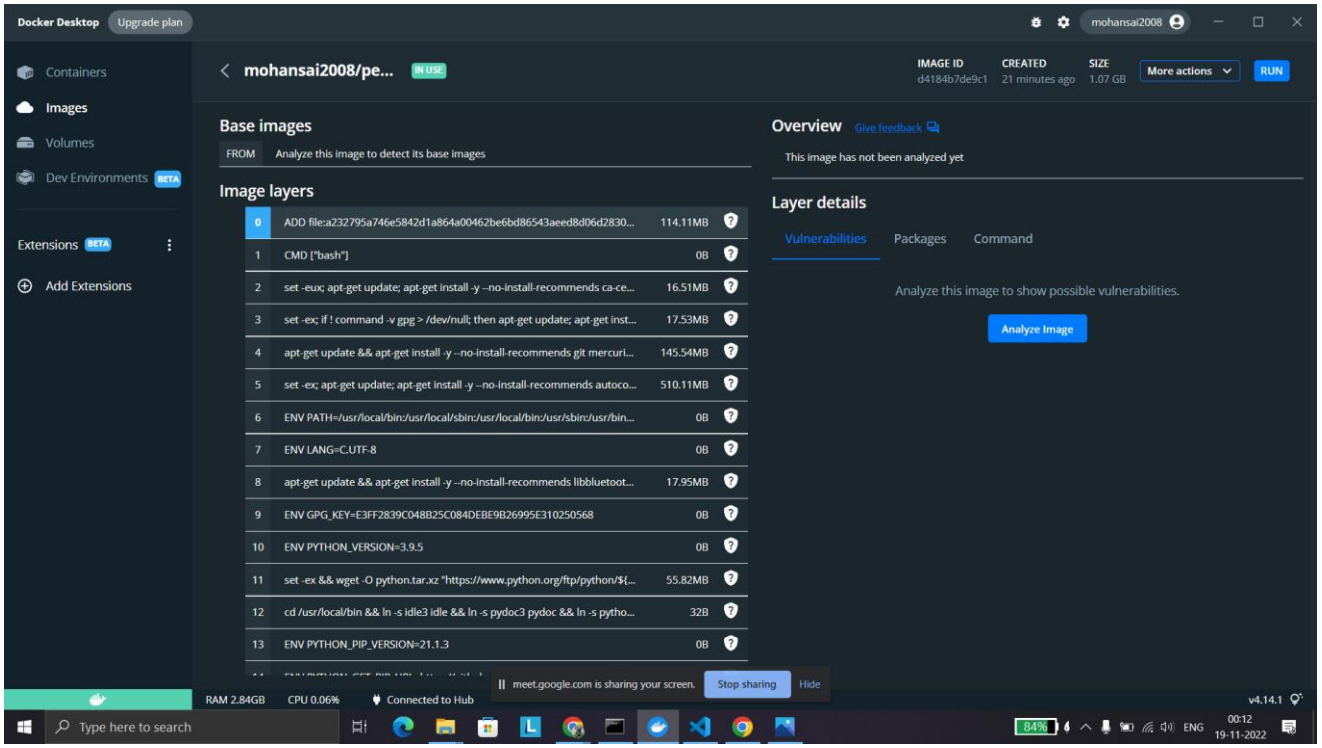
Creating image of website using docker:



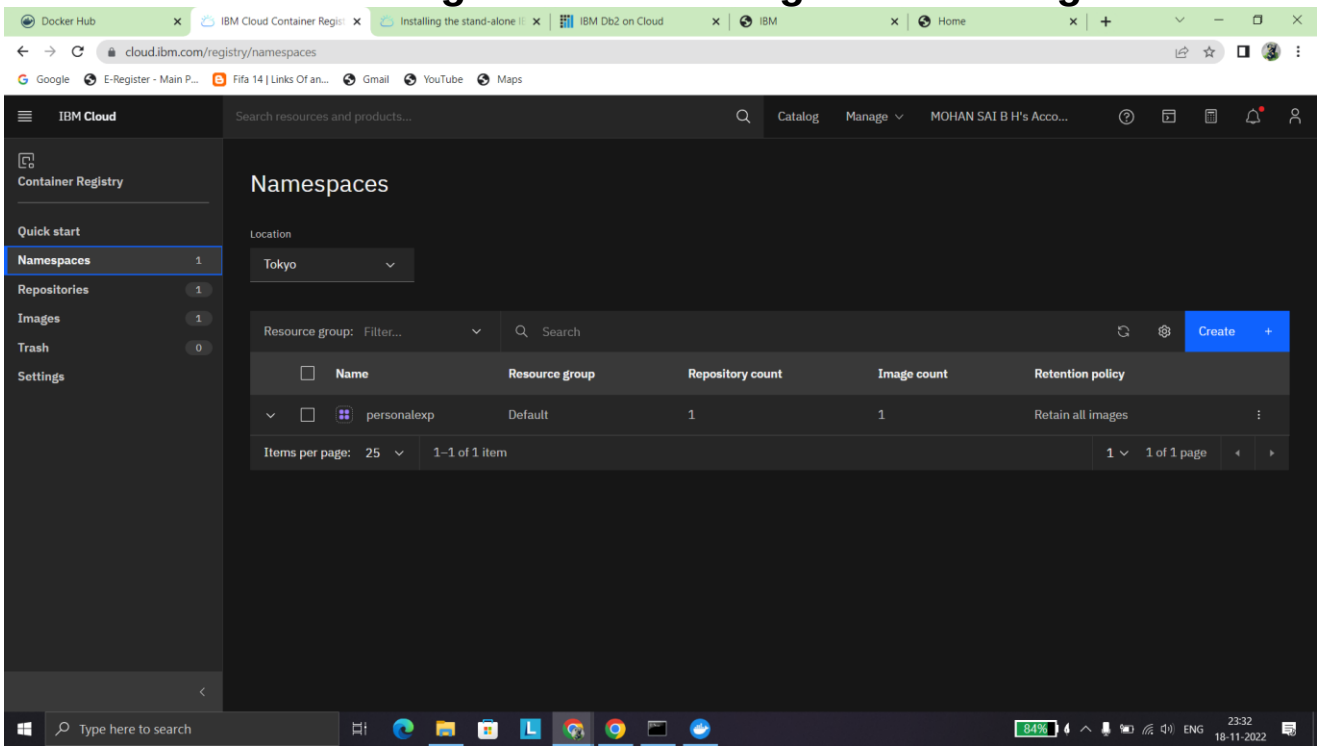


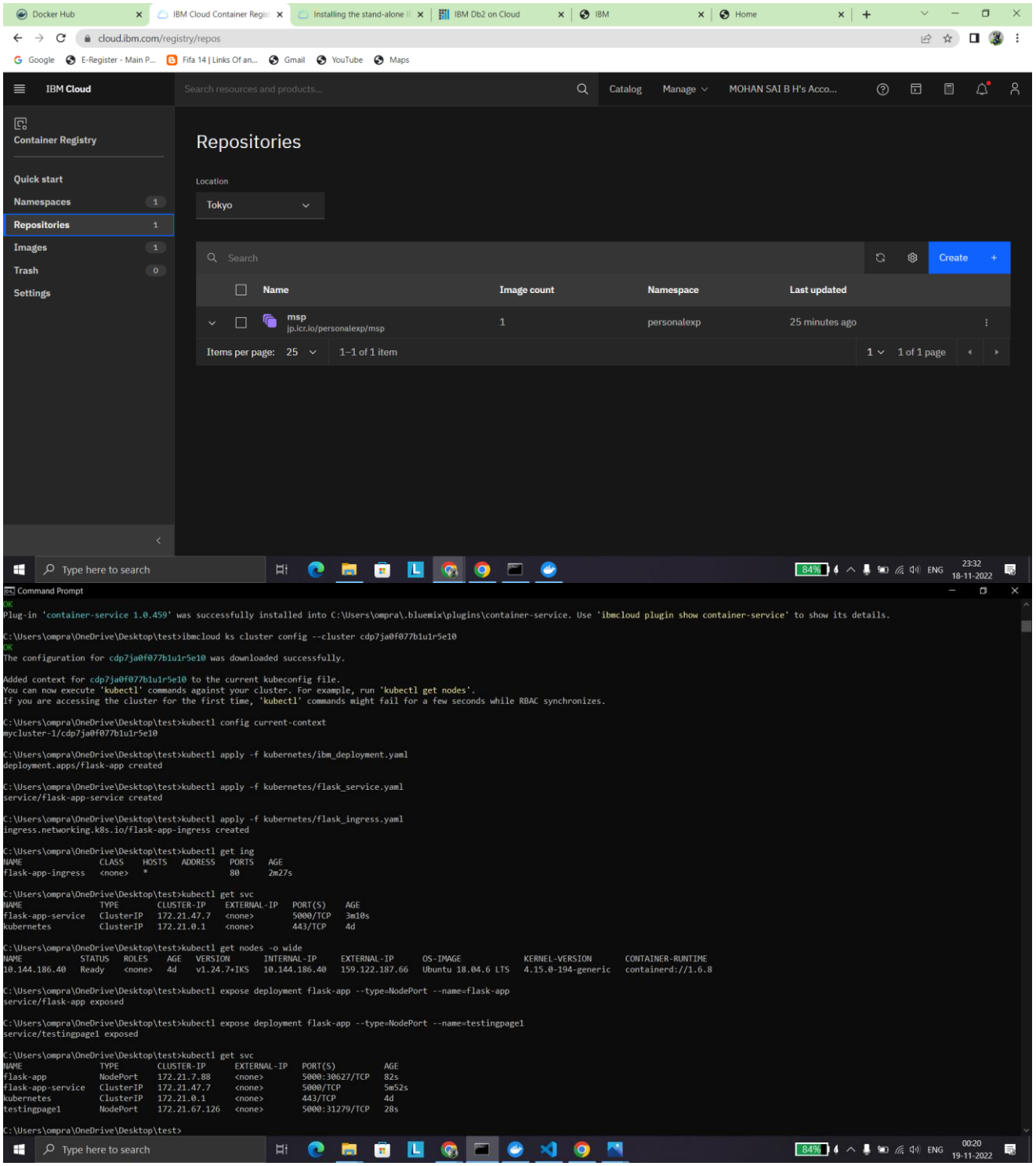
Cloud Registry:
Uploading docker image to IBM Cloud registry:





Kubernetes:
Create container using the docker image and hosting the site:




Docker Hub
IBM Cloud Container Regist
Installing the stand-alone I
IBM Db2 on Cloud
IBM
Home
cloud.ibm.com/registry/repos
Google
E-Register - Main P...
Fifa 14 | Links Of an...
Gmail
YouTube
Maps
IBM Cloud
Search resources and products...
Catalog
Manage
MOHAN SAI B H's Acco...
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Tokyo
Search
Create
Name
Image count
Namespace
Last updated
msp
jp.icr.io/personalexp/msp
1
personalexp
25 minutes ago
Items per page: 25
1–1 of 1 item
1 of 1 page
Type here to search
84%
ENG
23:32
18-11-2022

Command Prompt
OK
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\ompra\.bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.
C:\Users\ompra\OneDrive\Desktop\test>ibmcloud ks cluster config --cluster cdp7ja0f077b1u1r5e10
OK
The configuration for cdp7ja0f077b1u1r5e10 was downloaded successfully.
Added context for cdp7ja0f077b1u1r5e10 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.
C:\Users\ompra\OneDrive\Desktop\test>kubectl config current-context
mycluster-1/cdp7ja0f077b1u1r5e10
C:\Users\ompra\OneDrive\Desktop\test>kubectl apply -f kubernetes/ibm_deployment.yaml
deployment.apps/flask-app created
C:\Users\ompra\OneDrive\Desktop\test>kubectl apply -f kubernetes/flask_service.yaml
service/flask-app-service created
C:\Users\ompra\OneDrive\Desktop\test>kubectl apply -f kubernetes/flask_ingress.yaml
ingress.networking.k8s.io/flask-app-ingress created
C:\Users\ompra\OneDrive\Desktop\test>kubectl get ing
NAME CLASS HOSTS ADDRESS PORTS AGE
flask-app-ingress <none> * 80 2m27s
C:\Users\ompra\OneDrive\Desktop\test>kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
flask-app-service ClusterIP 172.21.47.7 <none> 5000/TCP 3m10s
kubernetes ClusterIP 172.21.0.1 <none> 443/TCP 4d
C:\Users\ompra\OneDrive\Desktop\test>kubectl get nodes -o wide
NAME STATUS ROLES AGE VERSION INTERNAL-IP EXTERNAL-IP OS-IMAGE KERNEL-VERSION CONTAINER-RUNTIME
10.144.186.40 Ready <none> 4d v1.24.7+IKS 10.144.186.40 159.122.187.66 Ubuntu 18.04.6 LTS 4.15.0-194-generic containerd://1.6.8
C:\Users\ompra\OneDrive\Desktop\test>kubectl expose deployment flask-app --type=NodePort --name=flask-app
service/flask-app exposed
C:\Users\ompra\OneDrive\Desktop\test>kubectl expose deployment flask-app --type=NodePort --name=testingpage1
service/testingpage1 exposed
C:\Users\ompra\OneDrive\Desktop\test>kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
flask-app NodePort 172.21.7.88 <none> 5000:30627/TCP 82s
flask-app-service ClusterIP 172.21.47.7 <none> 5000/TCP 5m52s
kubernetes ClusterIP 172.21.0.1 <none> 443/TCP 4d
testingpage1 NodePort 172.21.67.126 <none> 5000:31279/TCP 28s
C:\Users\ompra\OneDrive\Desktop\test>
Type here to search
84%
ENG
00:20
19-11-2022