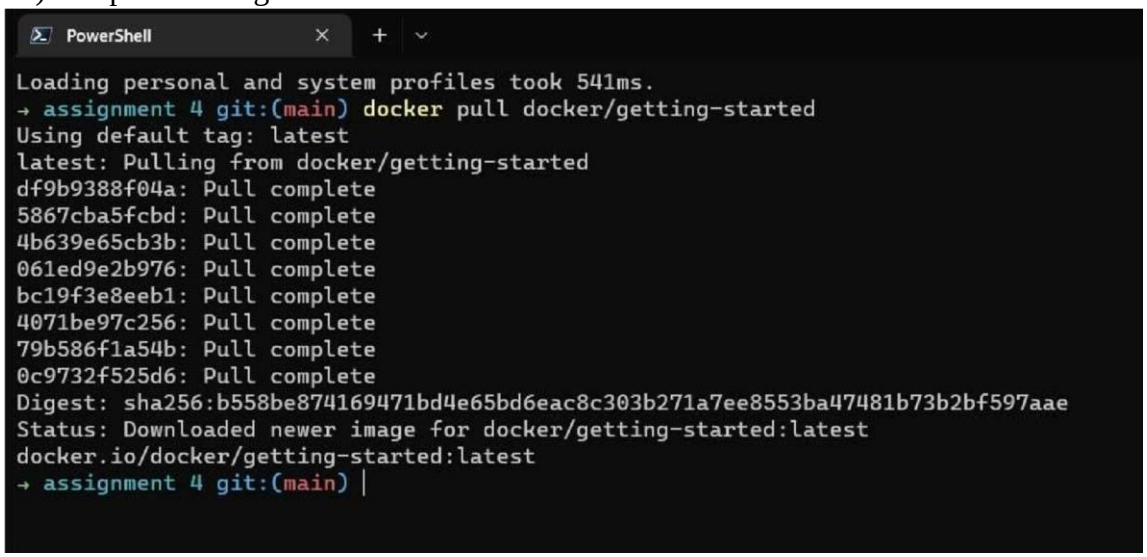
ASSIGNMENT–4

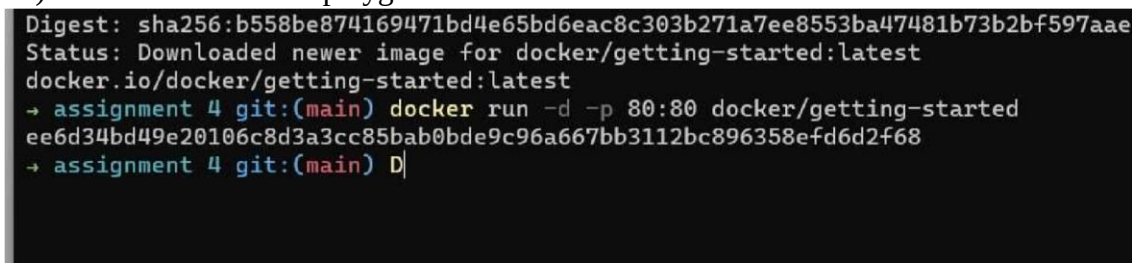
Date	21 November 2022
Team ID	PNT2022TMID45765
Project Name	Inventory Management System
Batch number	B03

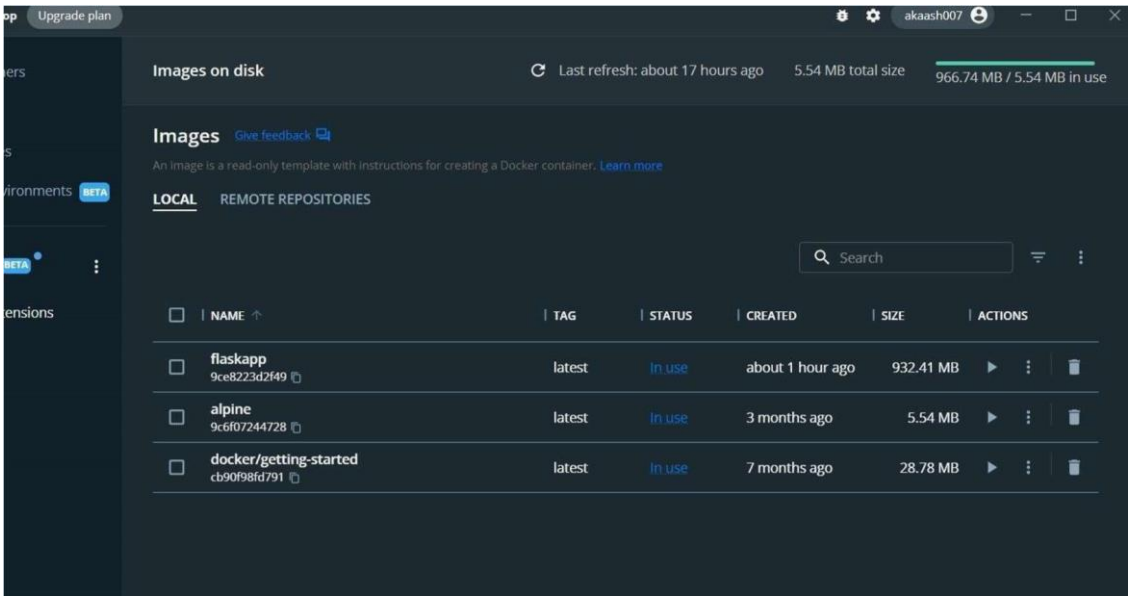
Question-1: pull an image from docker hub and run it in docker playground.

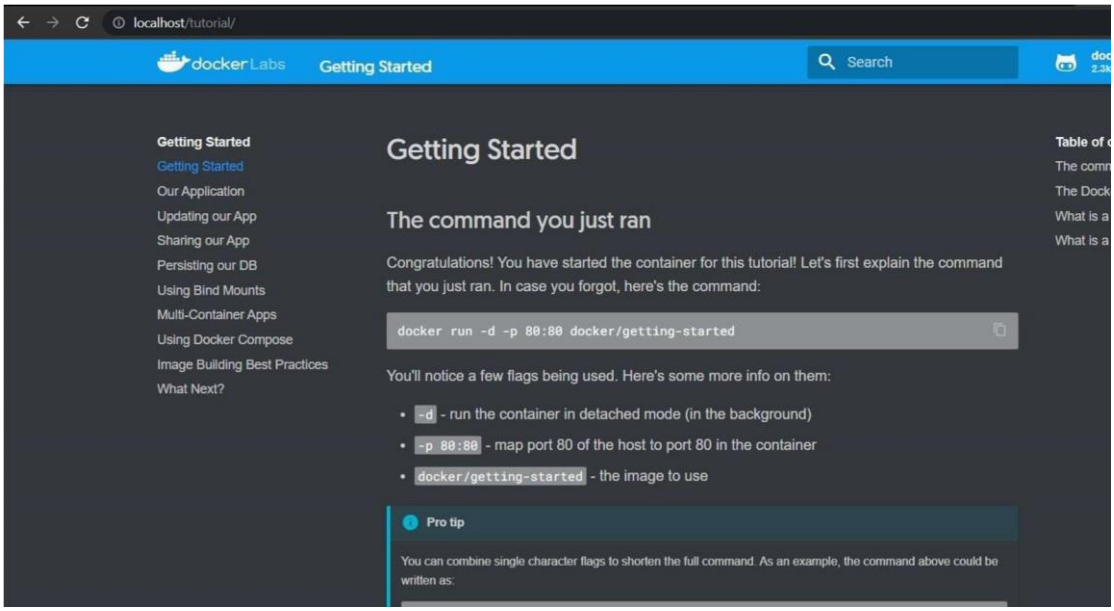
1) pull an image form docker hub



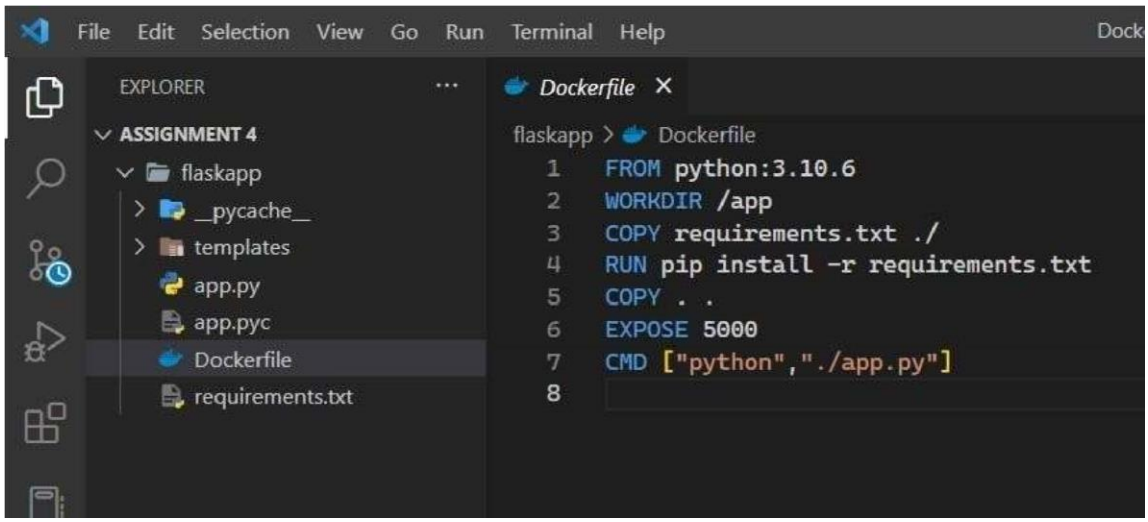
2) runt it in docker playground

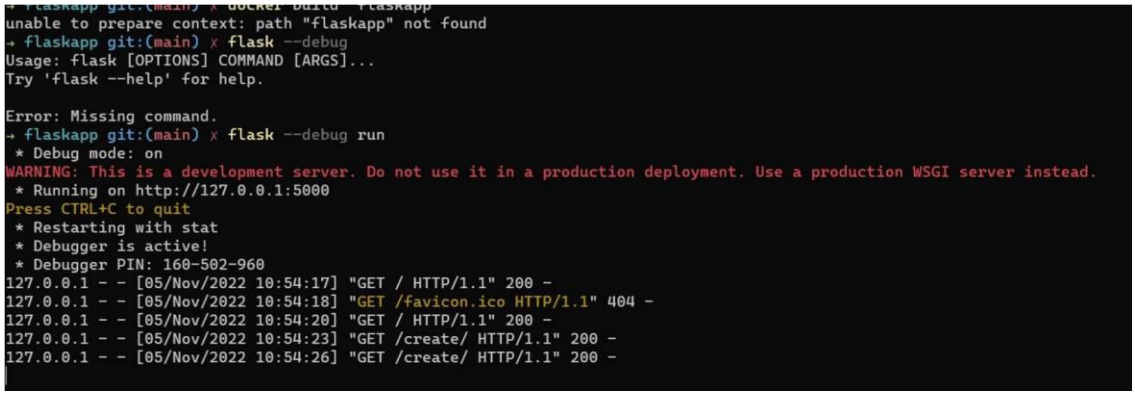




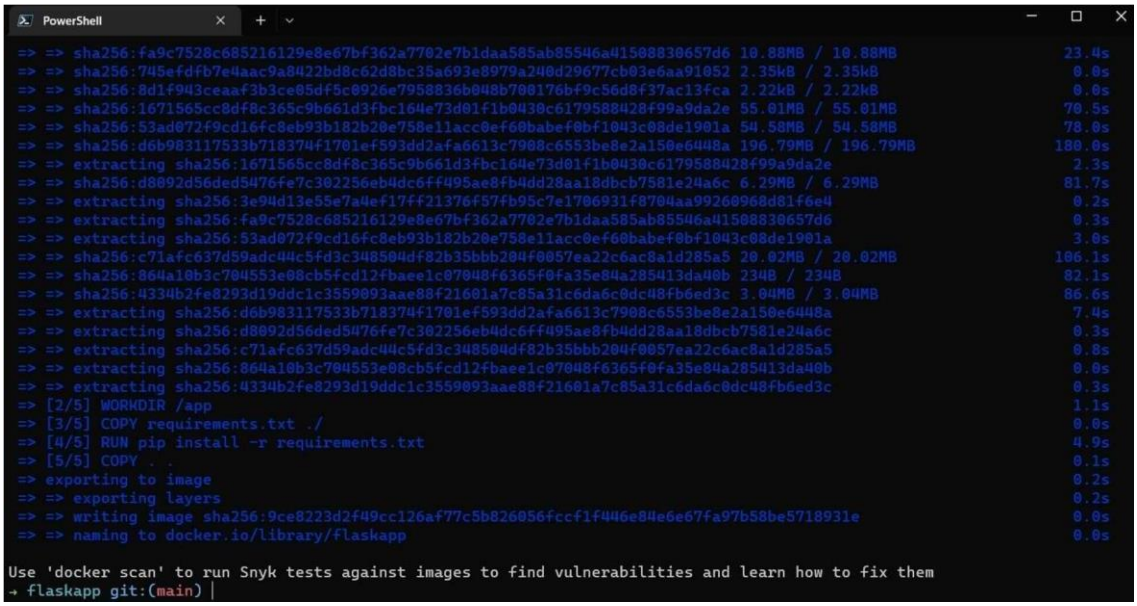


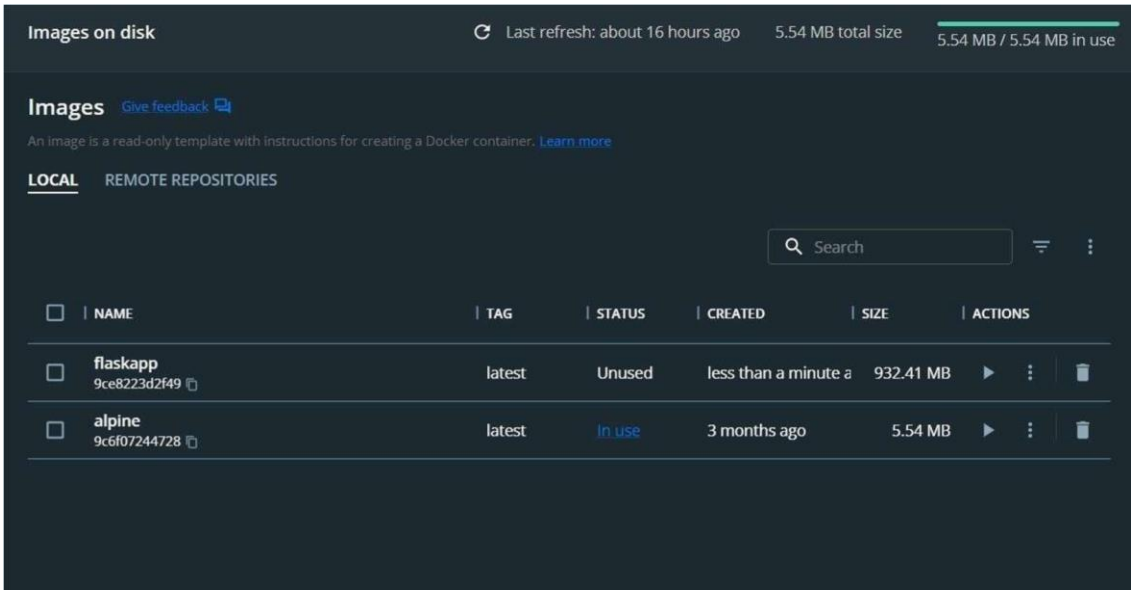
Question-2: Create a docker file for the job portal application and deploy it in docker application. 1)Creating a docker file for the job portal application

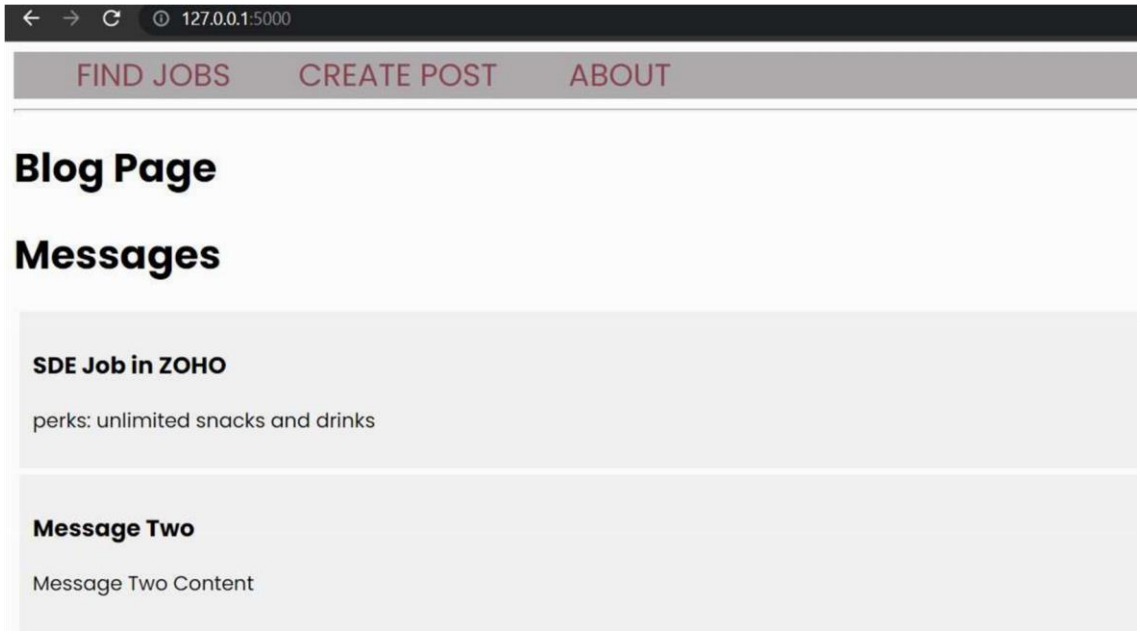




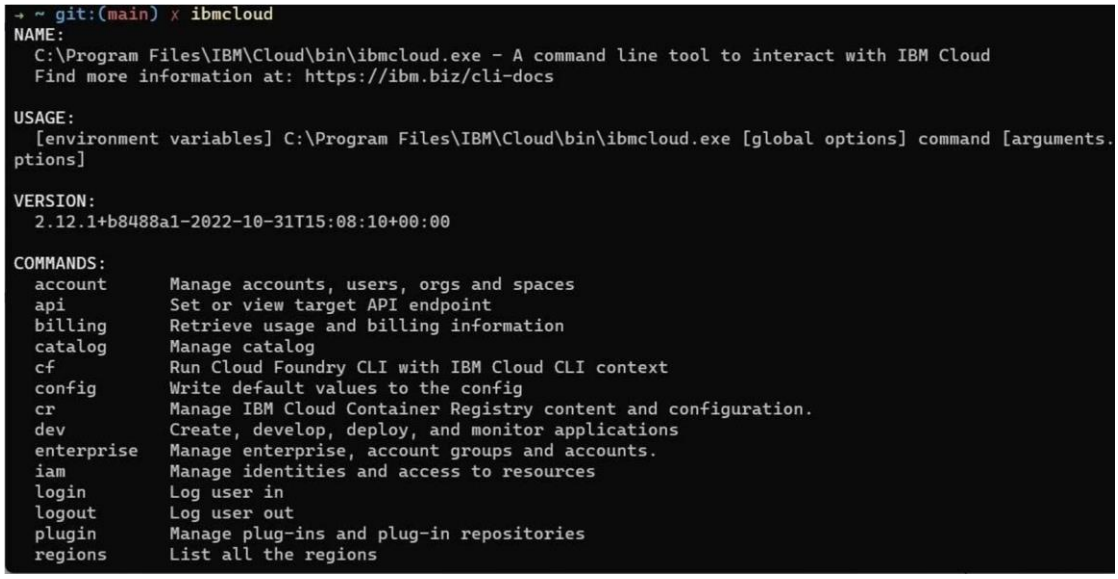
2) deploy in in docker application


PowerShell
=> => sha256:fa9c7528c685216129e8e67bf362a7702e7b1daa585ab85546a41508830657d6 10.88MB / 10.88MB 23.4s
=> => sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a240d29677cb03e6aa91052 2.35kB / 2.35kB 0.0s
=> => sha256:8d1f943ceaaf3b3ce05df5c0926e7958836b048b708176bf9c56d8f37ac13fca 2.22kB / 2.22kB 0.0s
=> => sha256:1671565cc8df8c365c9b661d3fbc164e73d01f1b0430c6179588428f99a9da2e 55.01MB / 55.01MB 70.5s
=> => sha256:53ad072f9cd16fc8eb93b182b20e758e11acc0ef60babef0bf1043c08de1901a 54.58MB / 54.58MB 78.0s
=> => sha256:d6b983117533b718374f1701ef593dd2afa6613c7908c6553be8e2a150e6448a 196.79MB / 196.79MB 180.0s
=> => extracting sha256:1671565cc8df8c365c9b661d3fbc164e73d01f1b0430c6179588428f99a9da2e 2.3s
=> => sha256:d8092d56ded5476fe7c302256eb4dc6ff495ae8fb4dd28aa18dbcb7581e24a6c 6.29MB / 6.29MB 81.7s
=> => extracting sha256:3e94d13e55e7a4ef17ff21376f57fb95c7e1706931f8704aa99260968d81f6e4 0.2s
=> => extracting sha256:fa9c7528c685216129e8e67bf362a7702e7b1daa585ab85546a41508830657d6 0.3s
=> => extracting sha256:53ad072f9cd16fc8eb93b182b20e758e11acc0ef60babef0bf1043c08de1901a 3.0s
=> => sha256:c71afc637d59adc44c5fd3c348504df82b35bbb204f0057ea22c6ac8a1d285a5 20.02MB / 20.02MB 106.1s
=> => sha256:864a10b3c704553e08cb5fcd12fbaee1c07048f6365f0fa35e84a285413da40b 234B / 234B 82.1s
=> => sha256:4334b2fe8293d19ddc1c3559093aae88f21601a7c85a31c6da6c0dc48fb6ed3c 3.04MB / 3.04MB 86.6s
=> => extracting sha256:d6b983117533b718374f1701ef593dd2afa6613c7908c6553be8e2a150e6448a 7.4s
=> => extracting sha256:d8092d56ded5476fe7c302256eb4dc6ff495ae8fb4dd28aa18dbcb7581e24a6c 0.3s
=> => extracting sha256:c71afc637d59adc44c5fd3c348504df82b35bbb204f0057ea22c6ac8a1d285a5 0.8s
=> => extracting sha256:864a10b3c704553e08cb5fcd12fbaee1c07048f6365f0fa35e84a285413da40b 0.0s
=> => extracting sha256:4334b2fe8293d19ddc1c3559093aae88f21601a7c85a31c6da6c0dc48fb6ed3c 0.3s
=> [2/5] WORKDIR /app 1.1s
=> [3/5] COPY requirements.txt ./ 0.0s
=> [4/5] RUN pip install -r requirements.txt 4.9s
=> [5/5] COPY . . 0.1s
=> exporting to image 0.2s
=> => exporting layers 0.2s
=> => writing image sha256:9ce8223d2f49cc126af77c5b826056fccf1f446e84e6e67fa97b58be5718931e 0.0s
=> => naming to docker.io/library/flaskapp 0.0s
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
→ flaskapp git:(main)

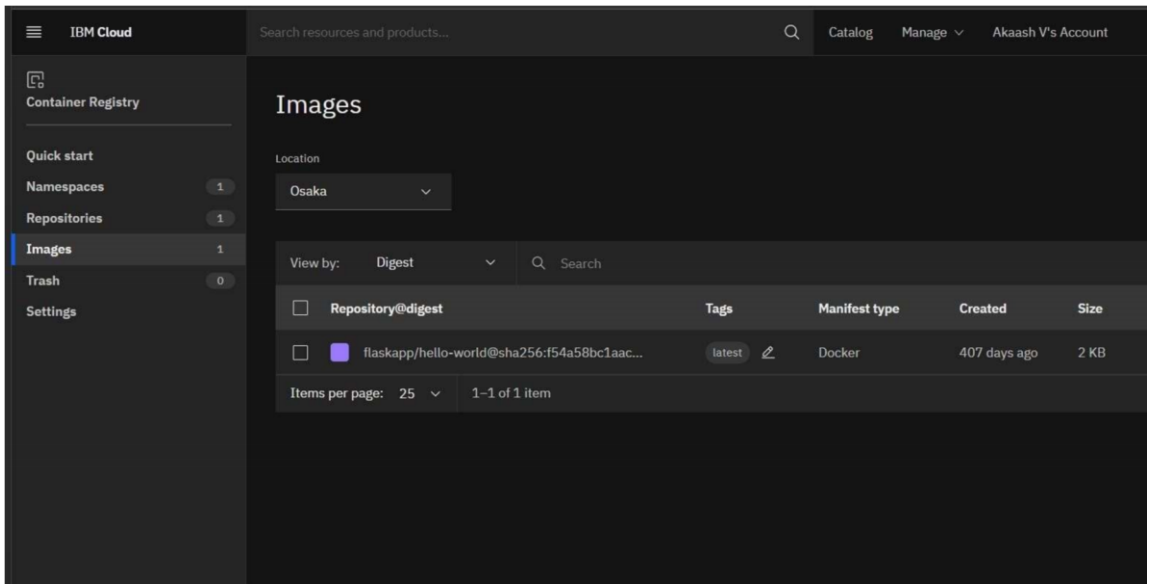

Images on disk
Last refresh: about 16 hours ago
5.54 MB total size
5.54 MB / 5.54 MB in use
Images
Give feedback
An image is a read-only template with instructions for creating a Docker container. Learn more
LOCAL
REMOTE REPOSITORIES
Search
NAME
TAG
STATUS
CREATED
SIZE
ACTIONS
flaskapp
9ce8223d2f49
latest
Unused
less than a minute a
932.41 MB
alpine
9c6f07244728
latest
In use
3 months ago
5.54 MB



Question-3:Create a IBM container registry and deploy hello world app or jobportalapp

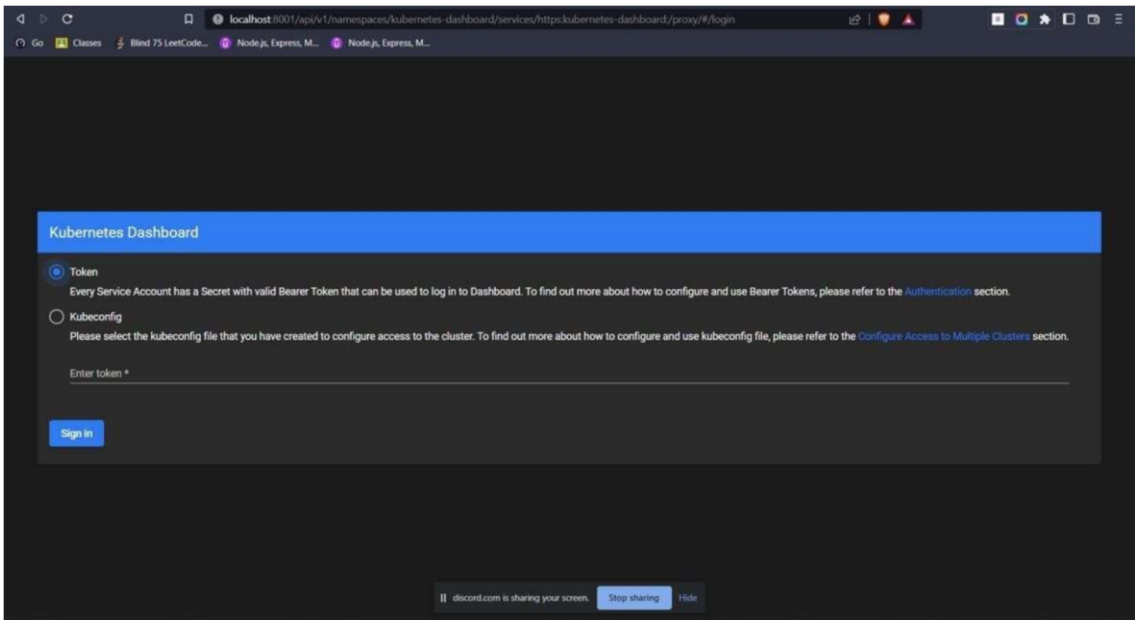


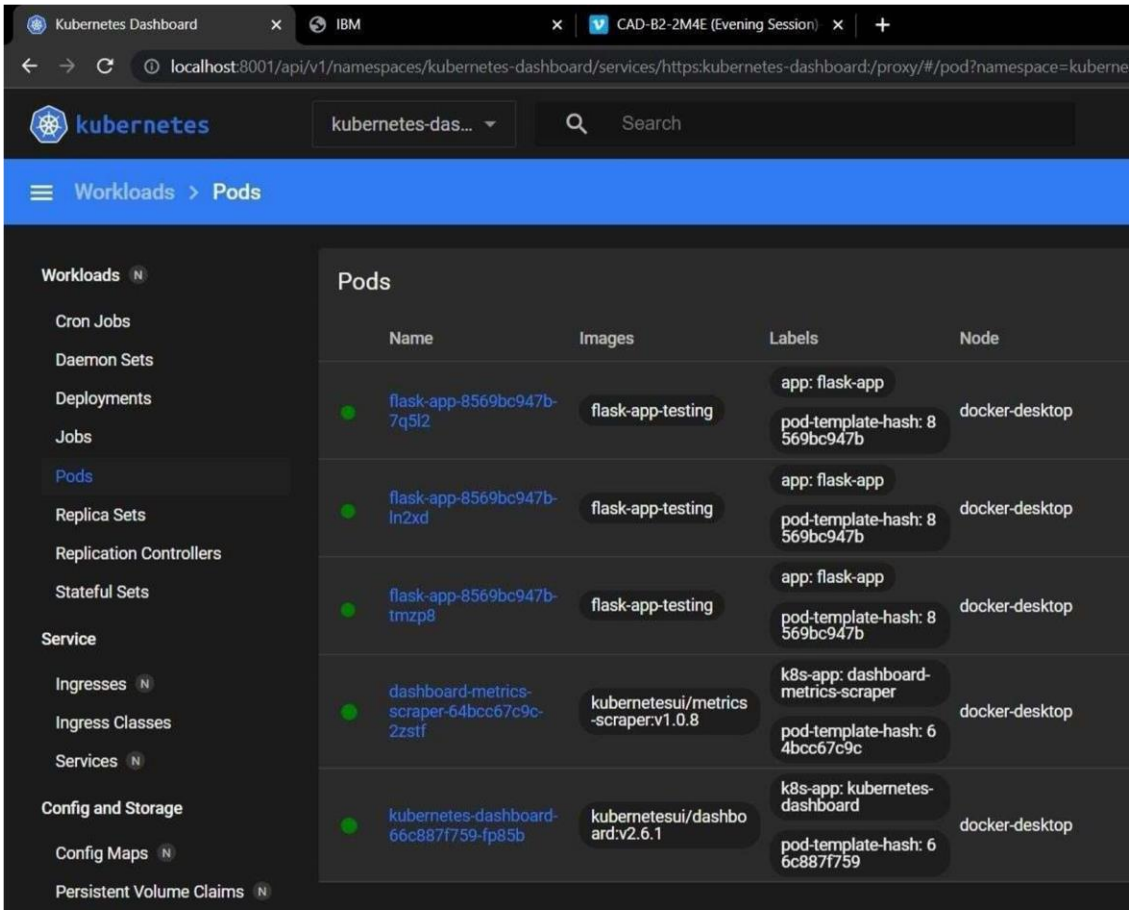
1) create a IBM container registry
2) deploy hello world or jobportal



Question-4: Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in note port

1)Creating a Kubernetes cluster in IBM cloud


localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/login
Go
Classes
Blind 75 LeetCode...
Node.js, Express, M...
Node.js, Express, M...
Kubernetes Dashboard
Token
Every Service Account has a Secret with valid Bearer Token that can be used to log in to Dashboard. To find out more about how to configure and use Bearer Tokens, please refer to the Authentication section.
Kubeconfig
Please select the kubeconfig file that you have created to configure access to the cluster. To find out more about how to configure and use kubeconfig file, please refer to the Configure Access to Multiple Clusters section.
Enter token *
Sign in
discord.com is sharing your screen.
Stop sharing
Hide


Kubernetes Dashboard
IBM
CAD-B2-2M4E (Evening Session)
localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/pod?namespace=kuberne
kubernetes
kubernetes-das...
Search
Workloads > Pods
Workloads N
Cron Jobs
Daemon Sets
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
Pods
Name
Images
Labels
Node
flask-app-8569bc947b-7q5l2
flask-app-testing
app: flask-app
pod-template-hash: 8569bc947b
docker-desktop
flask-app-8569bc947b-ln2xd
flask-app-testing
app: flask-app
pod-template-hash: 8569bc947b
docker-desktop
flask-app-8569bc947b-tmzp8
flask-app-testing
app: flask-app
pod-template-hash: 8569bc947b
docker-desktop
dashboard-metrics-scraper-64bcc67c9c-2zstf
kubernetesui/metrics-scraper:v1.0.8
k8s-app: dashboard-metrics-scraper
pod-template-hash: 64bcc67c9c
docker-desktop
kubernetes-dashboard-66c887f759-fp85b
kubernetesui/dashboard:v2.6.1
k8s-app: kubernetes-dashboard
pod-template-hash: 66c887f759
docker-desktop