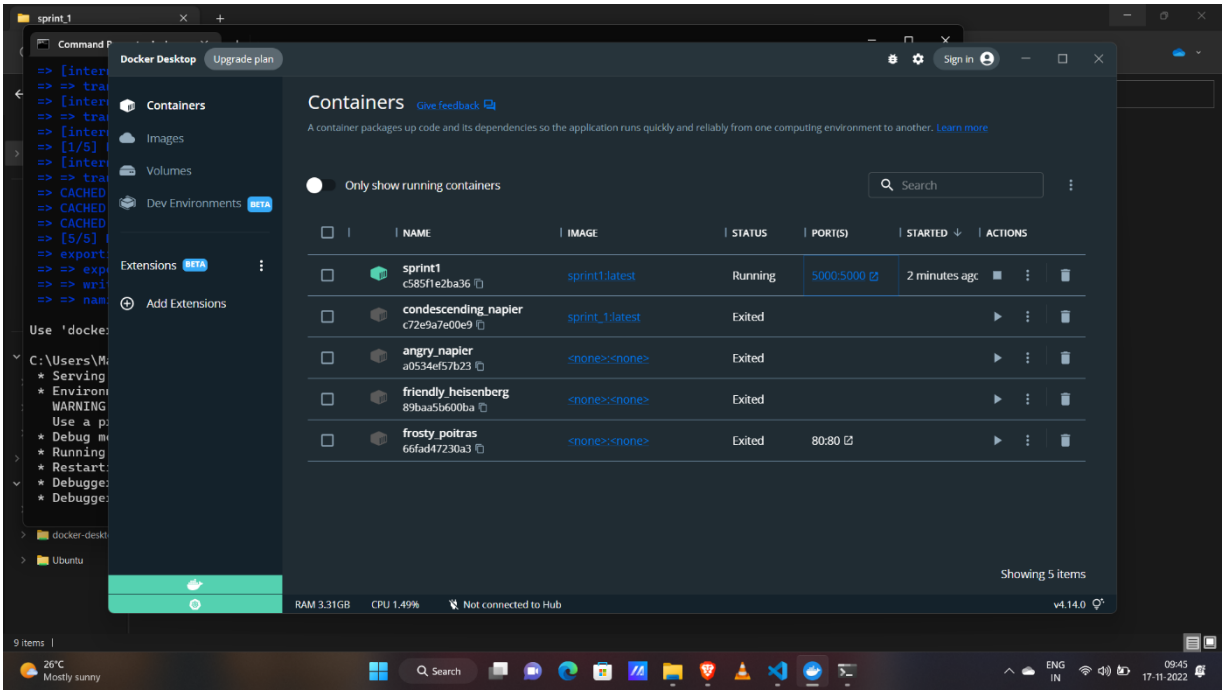
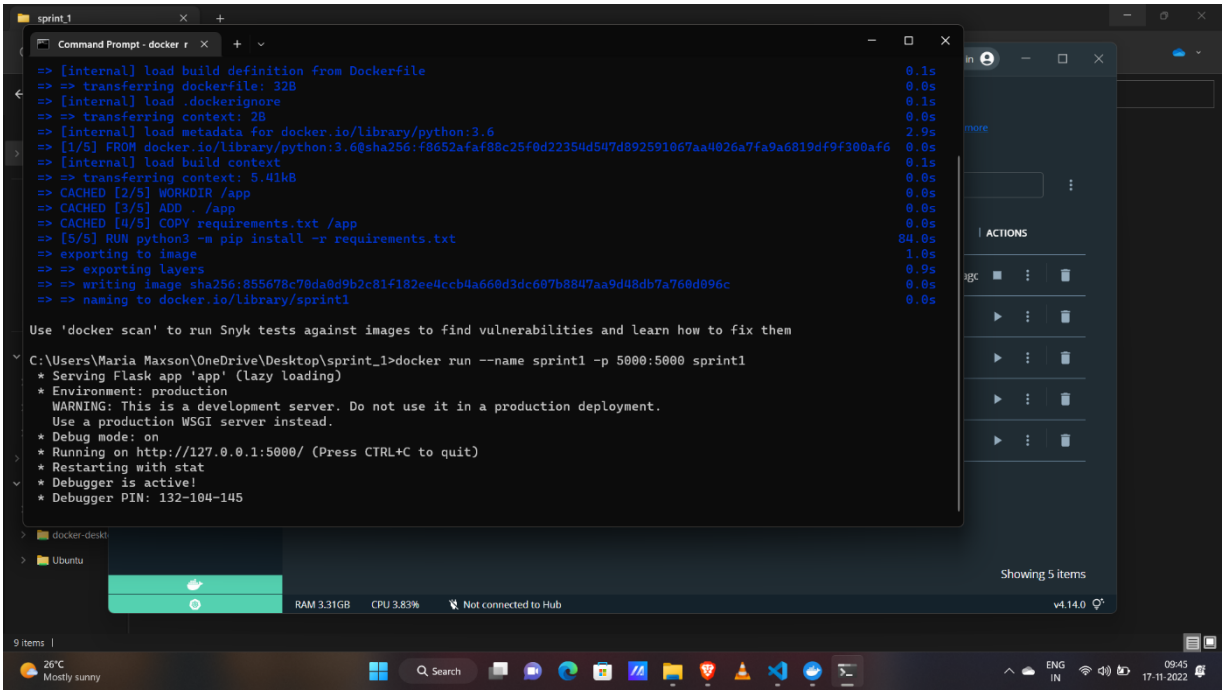
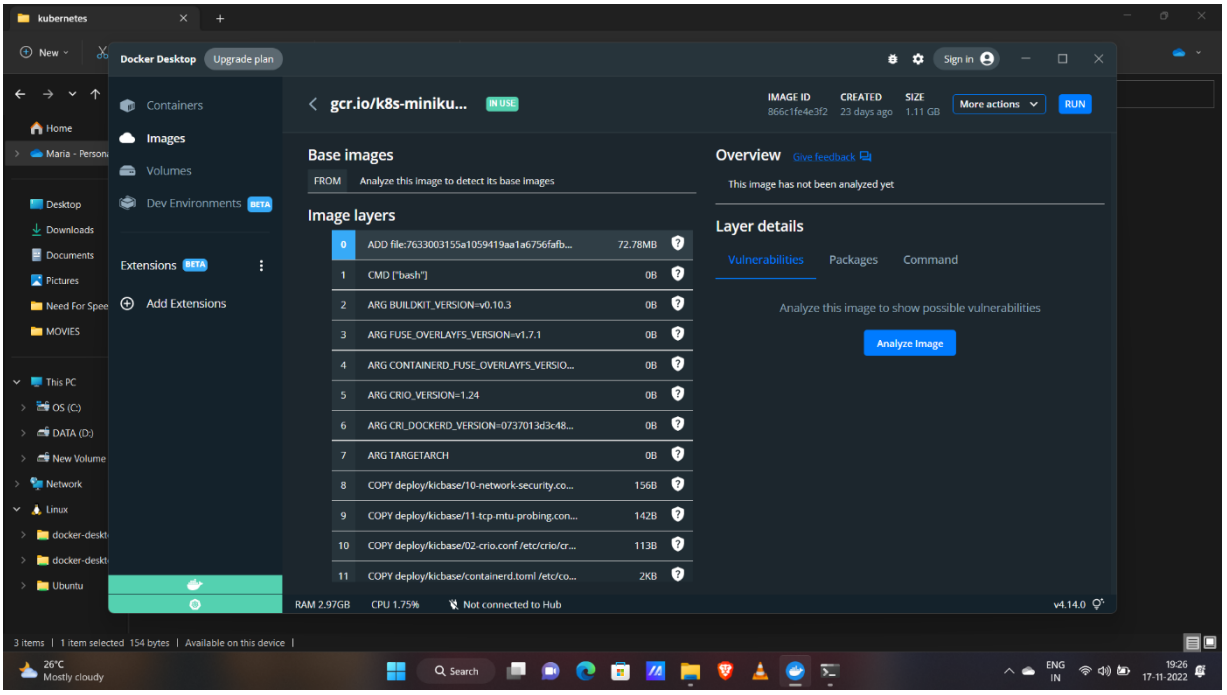
SPRINT 4

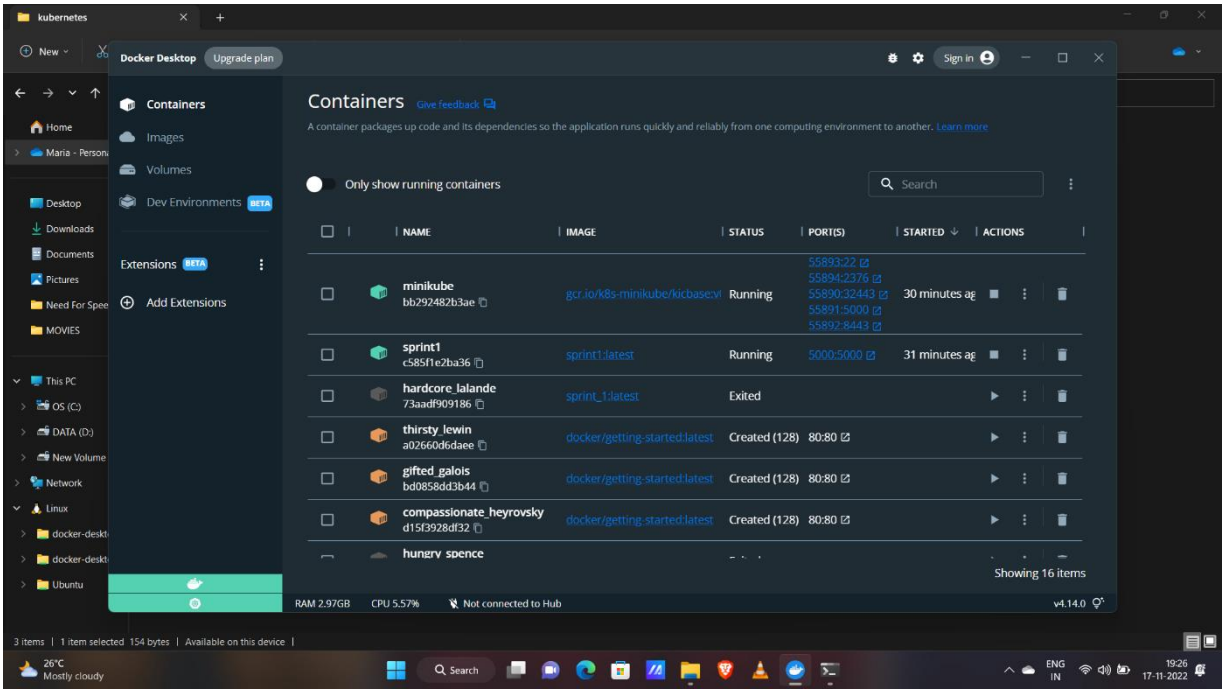
Team ID	PNT2022TMID07339
Project Name	Smart Fashion Recommender Application

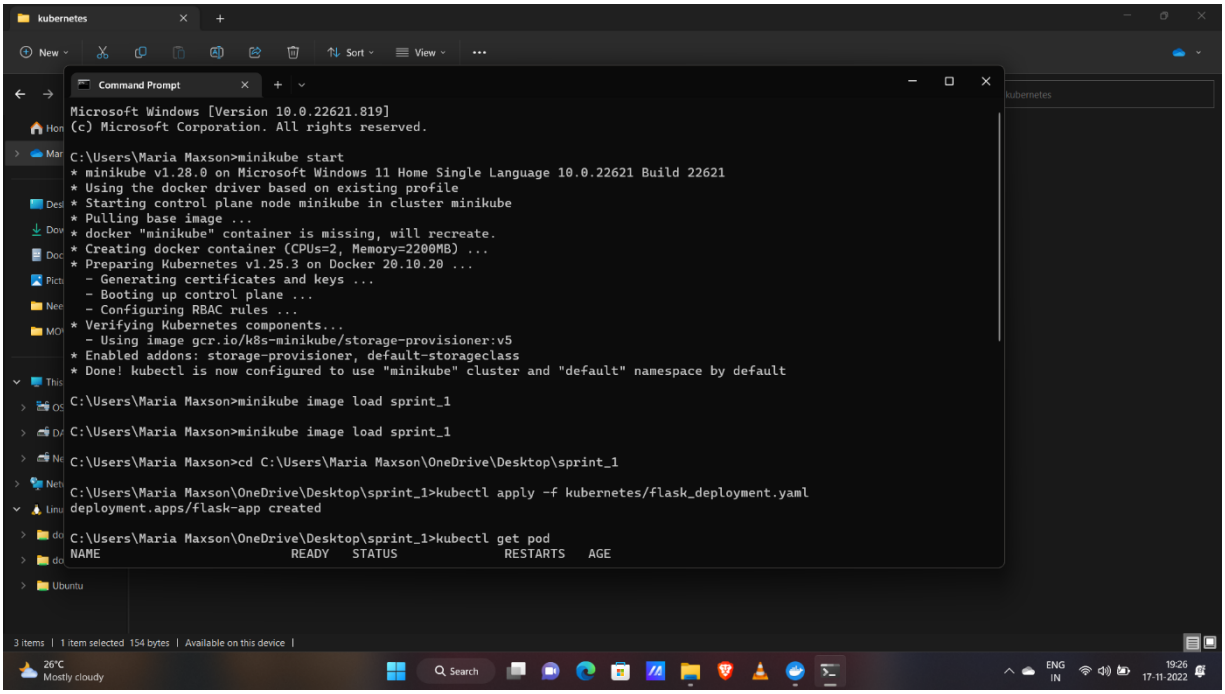
UPLOAD IMAGE TO IBM CONTAINER REGISTRY:



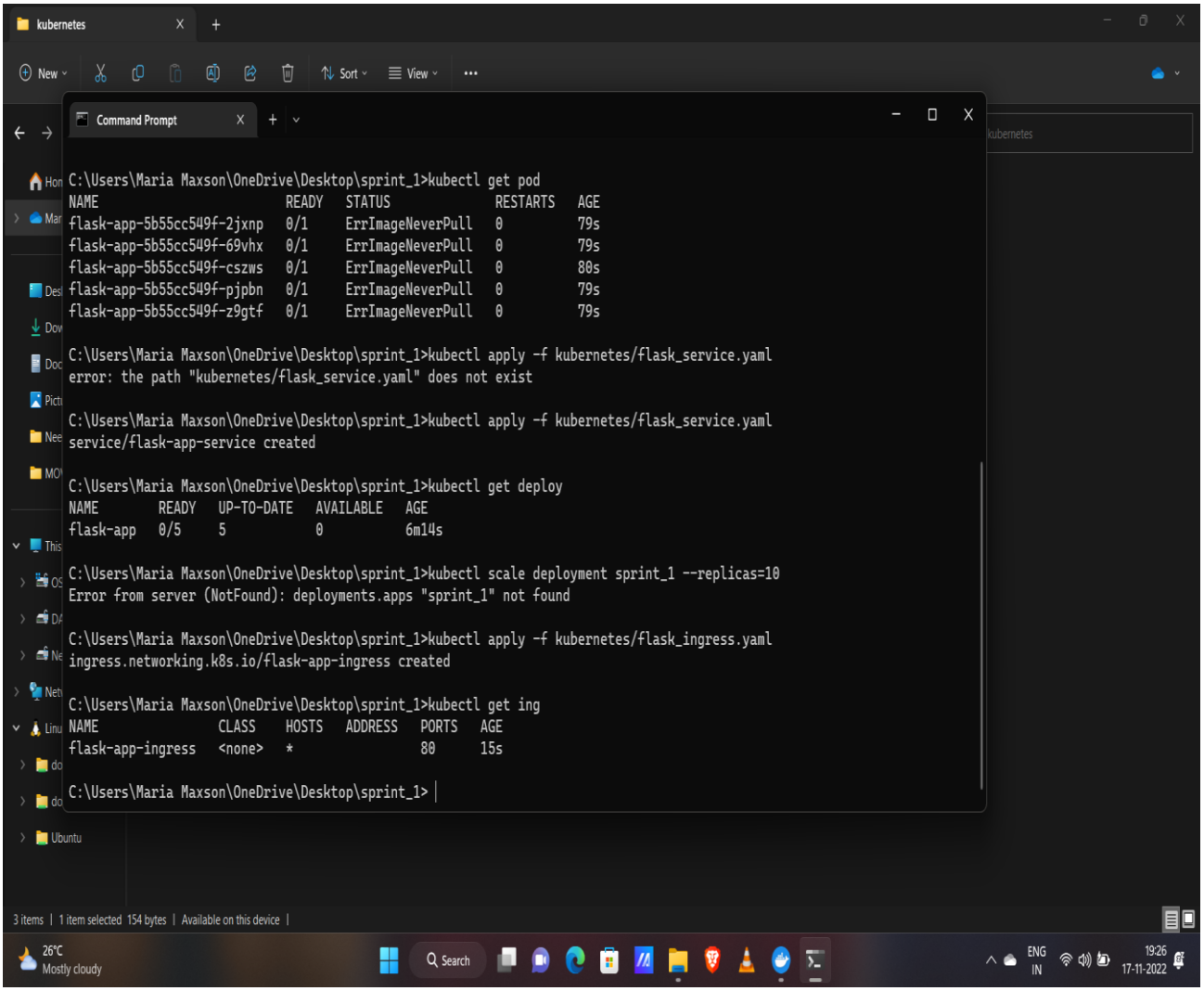

sprint_1
Command Prompt - docker r
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 32B 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.6 2.9s
=> [1/5] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6 0.0s
=> [internal] load build context 0.1s
=> => transferring context: 5.41kB 0.0s
=> CACHED [2/5] WORKDIR /app 0.0s
=> CACHED [3/5] ADD . /app 0.0s
=> CACHED [4/5] COPY requirements.txt /app 0.0s
=> [5/5] RUN python3 -m pip install -r requirements.txt 84.0s
=> exporting to image 1.0s
=> => exporting layers 0.9s
=> => writing image sha256:855678c70da0d9b2c81f182ee4ccb4a660d3dc607b8847aa9d48db7a760d096c 0.0s
=> => naming to docker.io/library/sprint1 0.0s
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>docker run --name sprint1 -p 5000:5000 sprint1
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 132-104-145
ACTIONS
Showing 5 items
RAM 3.31GB CPU 3.83% Not connected to Hub v4.14.0
9 items
26°C Mostly sunny
Search
ENG IN
09:45 17-11-2022

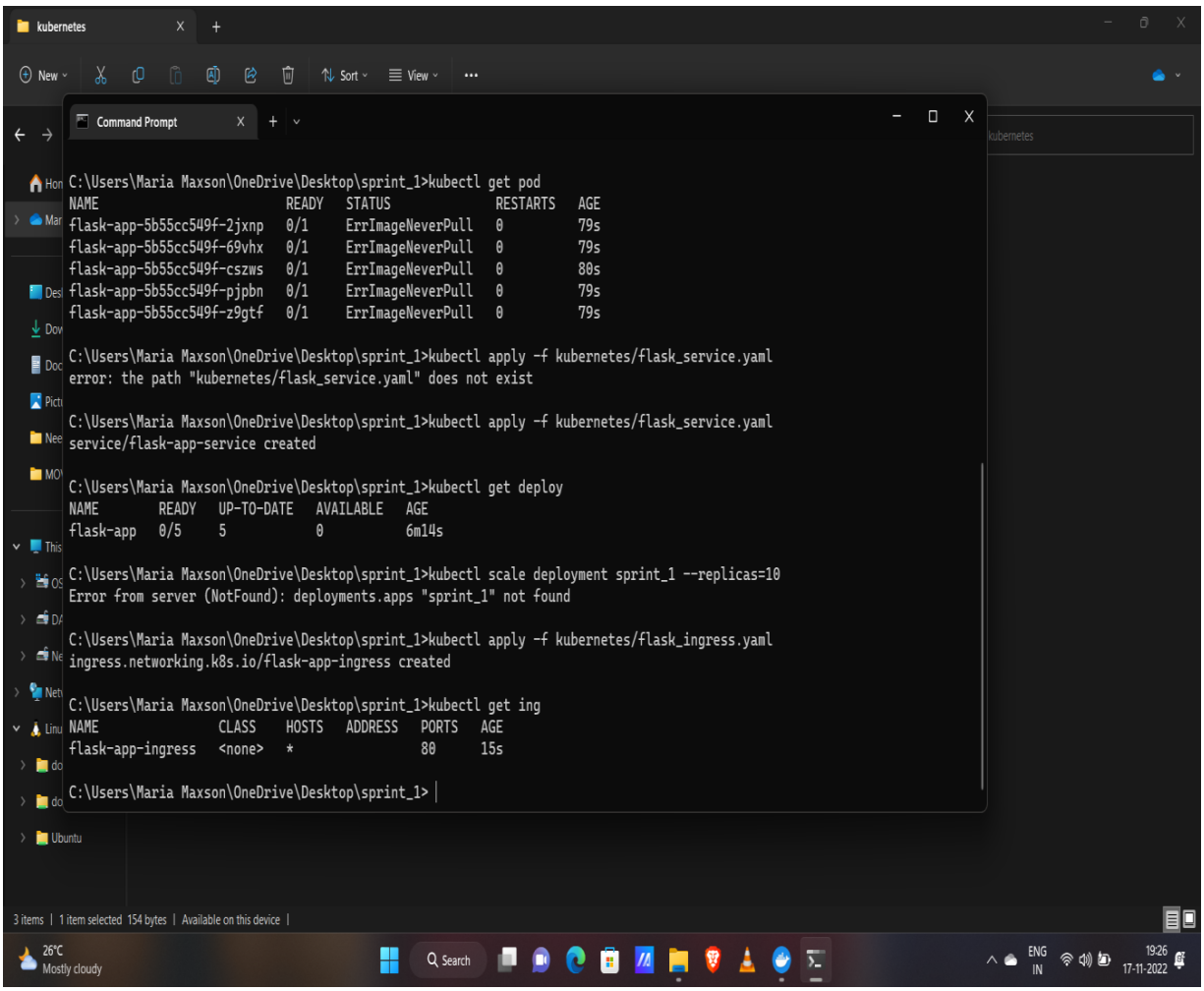

kubernetes
Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
gcr.io/k8s-miniku... IN USE
IMAGE ID 866c1fe4e3f2
CREATED 23 days ago
SIZE 1.11 GB
More actions
RUN
Base images
FROM Analyze this image to detect its base images
Image layers
0 ADD file:7633003155a1059419aa1a6756fafb... 72.78MB
1 CMD ["bash"] 0B
2 ARG BUILDKIT_VERSION=v0.10.3 0B
3 ARG FUSE_OVERLAYFS_VERSION=v1.7.1 0B
4 ARG CONTAINERD_FUSE_OVERLAYFS_VERSIO... 0B
5 ARG CRIO_VERSION=1.24 0B
6 ARG CRI_DOCKERD_VERSION=0737013d3c48... 0B
7 ARG TARGETARCH 0B
8 COPY deploy/kicbase/10-network-security.co... 156B
9 COPY deploy/kicbase/11-tcp-mtu-probing.con... 142B
10 COPY deploy/kicbase/02-crio.conf /etc/crio/cr... 113B
11 COPY deploy/kicbase/containerd.toml /etc/co... 2KB
Overview Give feedback
This image has not been analyzed yet
Layer details
Vulnerabilities Packages Command
Analyze this image to show possible vulnerabilities
Analyze Image
RAM 2.97GB CPU 1.75% Not connected to Hub v4.14.0
3 items | 1 item selected 154 bytes | Available on this device
26°C Mostly cloudy
Search
ENG IN
19:26 17-11-2022

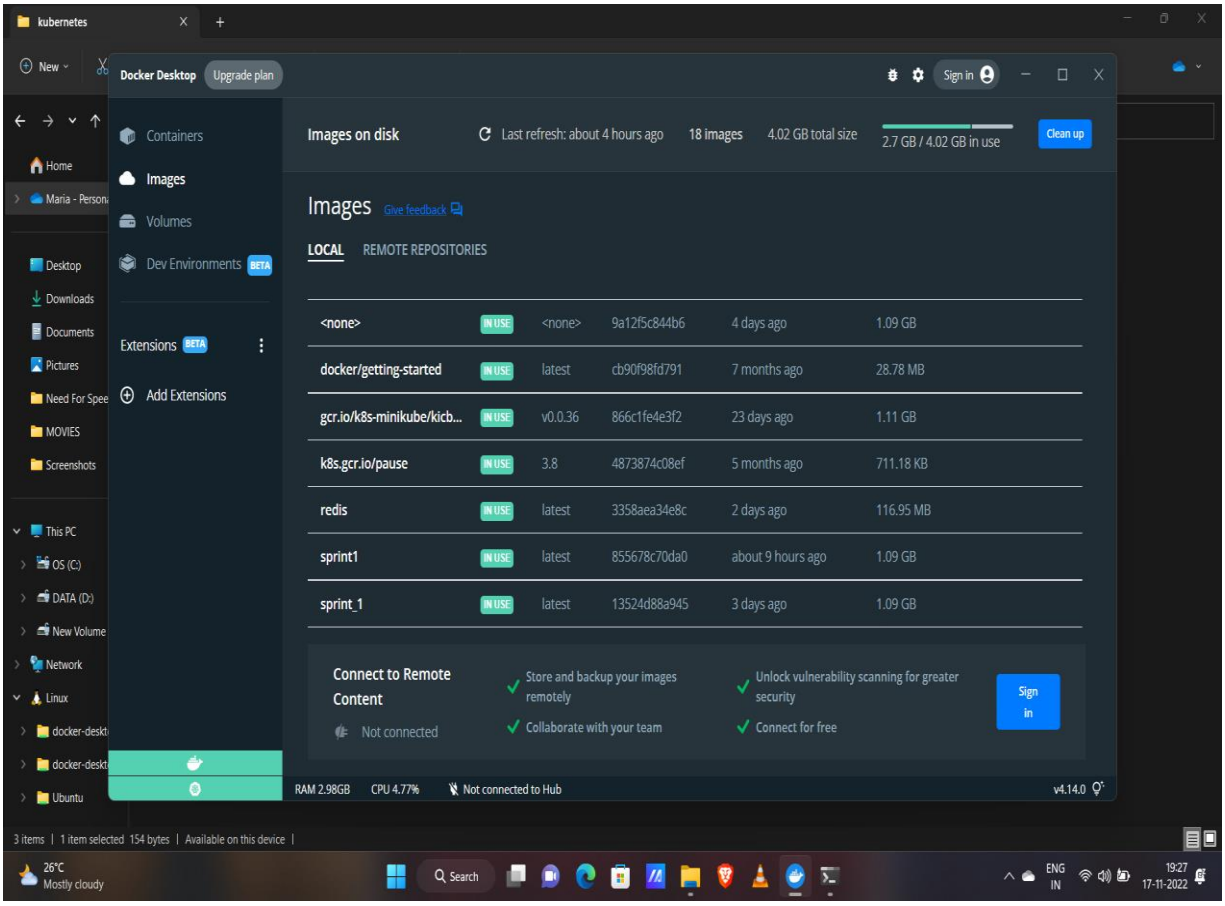

kubernetes
Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
Extensions
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Only show running containers
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
minikube
bb292482b3ae
gcr.io/k8s-minikube/kicbase:v
Running
55893:22
55894:2376
55890:32443
55891:5000
55892:8443
30 minutes ag
sprint1
c585f1e2ba36
sprint1:latest
Running
5000:5000
31 minutes ag
hardcore_lalande
73aadf909186
sprint_1:latest
Exited
thirsty_lewin
a02660d6daee
docker/getting-started:latest
Created (128)
80:80
gifted_galois
bd0858dd3b44
docker/getting-started:latest
Created (128)
80:80
compassionate_heyrovsky
d15f3928df32
docker/getting-started:latest
Created (128)
80:80
hungry_spence
Showing 16 items
RAM 2.97GB
CPU 5.57%
Not connected to Hub
v4.14.0
3 items | 1 item selected 154 bytes | Available on this device
26°C
Mostly cloudy
Search
ENG
IN
19:26
17-11-2022


kubernetes
New
Sort
View
Command Prompt
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Maria Maxson>minikube start
* minikube v1.28.0 on Microsoft Windows 11 Home Single Language 10.0.22621 Build 22621
* Using the docker driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
* docker "minikube" container is missing, will recreate.
* Creating docker container (CPUs=2, Memory=2200MB) ...
* Preparing Kubernetes v1.25.3 on Docker 20.10.20 ...
- Generating certificates and keys ...
- Booting up control plane ...
- Configuring RBAC rules ...
* Verifying Kubernetes components...
- Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
C:\Users\Maria Maxson>minikube image load sprint_1
C:\Users\Maria Maxson>minikube image load sprint_1
C:\Users\Maria Maxson>cd C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl apply -f kubernetes/flask_deployment.yaml
deployment.apps/flask-app created
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl get pod
NAME READY STATUS RESTARTS AGE
3 items | 1 item selected 154 bytes | Available on this device
26°C
Mostly cloudy
Search
ENG
IN
19:26
17-11-2022

DEPLOY IN KUBERNETES CLUSTER:




kubernetes
Command Prompt
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl get pod
NAME READY STATUS RESTARTS AGE
flask-app-5b55cc549f-2jxnp 0/1 ErrImageNeverPull 0 79s
flask-app-5b55cc549f-69vhx 0/1 ErrImageNeverPull 0 79s
flask-app-5b55cc549f-cszws 0/1 ErrImageNeverPull 0 80s
flask-app-5b55cc549f-pjpbn 0/1 ErrImageNeverPull 0 79s
flask-app-5b55cc549f-z9gtf 0/1 ErrImageNeverPull 0 79s
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl apply -f kubernetes/flask_service.yaml
error: the path "kubernetes/flask_service.yaml" does not exist
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl apply -f kubernetes/flask_service.yaml
service/flask-app-service created
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
flask-app 0/5 5 0 6m14s
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl scale deployment sprint_1 --replicas=10
Error from server (NotFound): deployments.apps "sprint_1" not found
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl apply -f kubernetes/flask_ingress.yaml
ingress.networking.k8s.io/flask-app-ingress created
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>kubectl get ing
NAME CLASS HOSTS ADDRESS PORTS AGE
flask-app-ingress <none> * 80 15s
C:\Users\Maria Maxson\OneDrive\Desktop\sprint_1>
3 items | 1 item selected 154 bytes | Available on this device
26°C
Mostly cloudy
Search
ENG
IN
19:26
17-11-2022


kubernetes
Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Images on disk
Last refresh: about 4 hours ago
18 images
4.02 GB total size
2.7 GB / 4.02 GB in use
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
<none> IN USE <none> 9a12f5c844b6 4 days ago 1.09 GB
docker/getting-started IN USE latest cb90f98fd791 7 months ago 28.78 MB
gcr.io/k8s-minikube/kicb... IN USE v0.0.36 866c1fe4e3f2 23 days ago 1.11 GB
k8s.gcr.io/pause IN USE 3.8 4873874c08ef 5 months ago 711.18 KB
redis IN USE latest 3358aea34e8c 2 days ago 116.95 MB
sprint1 IN USE latest 855678c70da0 about 9 hours ago 1.09 GB
sprint_1 IN USE latest 13524d88a945 3 days ago 1.09 GB
Connect to Remote Content
Not connected
Store and backup your images remotely
Collaborate with your team
Unlock vulnerability scanning for greater security
Connect for free
Sign in
RAM 2.98GB
CPU 4.77%
Not connected to Hub
v4.14.0
3 items | 1 item selected 154 bytes | Available on this device
26°C
Mostly cloudy
Search
ENG
IN
19:27
17-11-2022