

DEPLOYMENT OF APP IN IBM CLOUD

CONTAINERIZE THE APP

Team ID	PNT2022TMID05166
Project Name	Plasma Donor Application

```
C:\Users\cinth>Command Prompt
Digest: sha256:4b1d0c4a2d2aaf63b3711f34eb9fa89fa1bf53dd6e4ca954d47cae4005c2
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest

C:\Users\cinth>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    a8780b506fa4   5 days ago     77.8MB

C:\Users\cinth>docker pull centos
Using default tag: latest
latest: Pulling from library/centos
aid0c7532777: Pull complete
Digest: sha256:a27fd8080b517143cbbb9d9fb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Downloaded newer image for centos:latest
docker.io/library/centos:latest

C:\Users\cinth>docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
e9995326b091: Pull complete
71689475aec2: Pull complete
f88a23025338: Pull complete
0df440342e26: Pull complete
eef26ceb3309: Pull complete
8e3ed6a9e43a: Pull complete
Digest: sha256:943c25b4b66b332184d5ba6bb18234273551593016c0e0ae906bab111548239f
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest

C:\Users\cinth>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES
39a758a23976   centos:latest  "/bin/bash"             About a minute   Up About a minute   stoic_hamilton

C:\Users\cinth>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    a8780b506fa4   5 days ago     77.8MB
nginx         latest    76c69feac34e   2 weeks ago    142MB
centos        latest    5d0da3dc9764   13 months ago  231MB

C:\Users\cinth>
```

```
C:\Users\cinth>Command Prompt
Git commit:      03df974
Built:           Tue Oct 18 18:18:35 2022
OS/Arch:         linux/amd64
Experimental:     false
containerd:
Version:          1.6.8
GitCommit:        9cd3357b7fd7218e4aec3eae239db1f68a5a6ec6
runc:
Version:          1.1.4
GitCommit:        v1.1.4-0-g5fd4c4d
docker-init:
Version:          0.19.0
GitCommit:        de40ad0

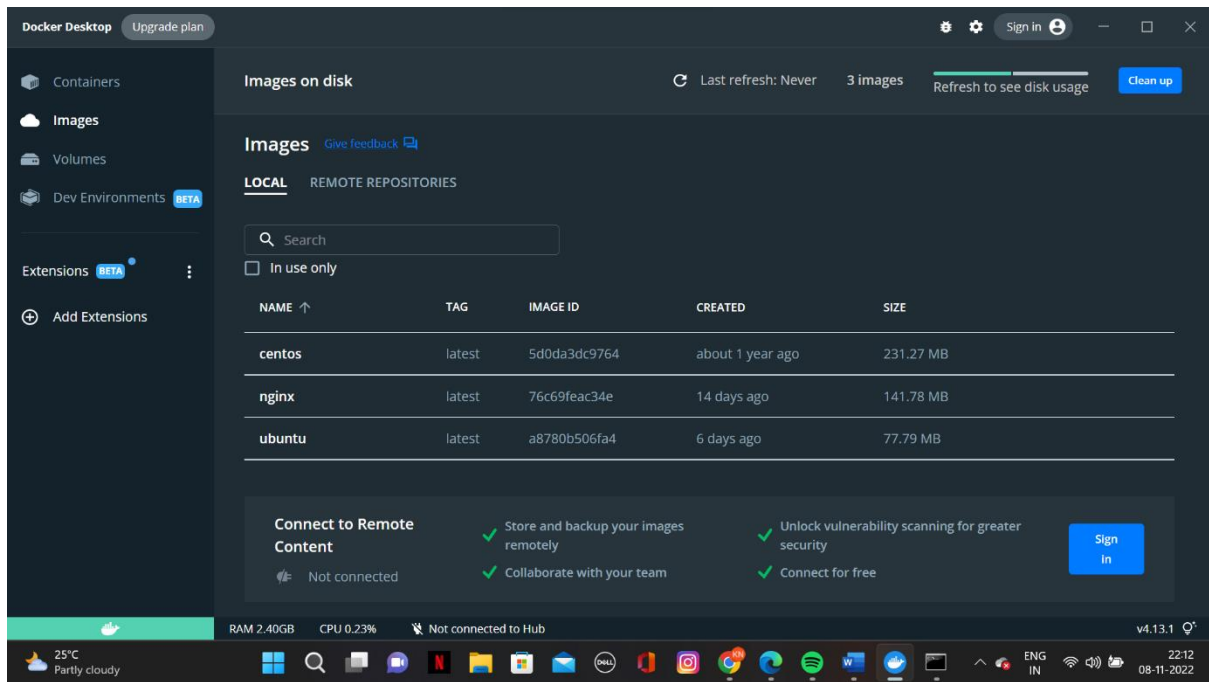
C:\Users\cinth>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS   NAMES

C:\Users\cinth>docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
e96e057aae67: Pull complete
Digest: sha256:4b1d0c4a2d2aaf63b3711f34eb9fa89fa1bf53dd6e4ca954d47cae4005c2
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest

C:\Users\cinth>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    a8780b506fa4   5 days ago     77.8MB

C:\Users\cinth>docker pull centos
Using default tag: latest
latest: Pulling from library/centos
aid0c7532777: Pull complete
Digest: sha256:a27fd8080b517143cbbb9d9fb7c8571c40d67d534bbdee55bd6c473f432b177
Status: Downloaded newer image for centos:latest
docker.io/library/centos:latest

C:\Users\cinth>
```



```
C:\Users\cinth\flask project> docker run -d -p 5000:5000 app
Unable to find image 'app:latest' locally
docker: Error response from daemon: pull access denied for app, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users\cinth\flask project> docker build -t app:latest .
[+] Building 5.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 328 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 28 0.0s
=> [internal] load metadata for docker.io/library/python:2.7 1.4s
=> [1/6] FROM docker.io/library/python:2.7@sha256:cfa62318c459b1fde9e0841c619906d15ada5910d625176e24bf692cf8a260 0.0s
=> [internal] load build context 0.2s
=> => transferring context: 135.89kB 0.2s
=> CACHED [2/6] RUN apt-get update 0.0s
=> CACHED [3/6] RUN mkdir /app 0.0s
=> CACHED [4/6] WORKDIR /app 0.0s
=> [5/6] COPY . /app 0.2s
=> [6/6] RUN pip install -r requirements.txt 3.4s
=> exporting to image 0.2s
=> => exporting layers 0.2s
=> => writing image sha256:01b5abbf581bb95eb3491057a61c5da0f060e1fef19ea15b56407028e60e5b7c 0.0s
=> => naming to docker.io/library/app:latest 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\cinth\flask project> docker run -d -p 5000:5000 app
3fcd078f26af13dc4b7e85f711d43e93473a64af7b4229d402aad6c13857de6a

C:\Users\cinth\flask project>
```

```
Command Prompt - python
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\cinth>cd flask_docker_demo

C:\Users\cinth\flask_docker_demo>python demo.py
* Serving Flask app 'demo'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5001
* Running on http://192.168.43.41:5001
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 139-825-872
```

```
Command Prompt
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\cinth>docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS          NAMES
5b745ab55eb7   flask-docker-demo-app:latest        "python demo.py"        2 minutes ago Up 2 minutes   5001/tcp       busy_robinson

C:\Users\cinth>
```

