Lab1 Screenshots

1.0 Basics & Running First Container

```
[sufiyanmemon@Sufiyans-Air ~ % docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
478afc919002: Pull complete
Digest: sha256:ac69084025c660510933cca701f615283cdbb3aa0963<u>188770b54c31c8962493</u>
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/
For more examples and ideas, visit:
 https://docs.docker.com/get-started/
```

```
[sufiyanmemon@Sufiyans-Air ~ % docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
c30352492317: Pull complete
Digest: sha256:51b67269f354137895d43f3b3d810bfacd3945438e94dc5ac55fdac340352f48
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
```

```
[sufiyanmemon@Sufiyans-Air ~ % docker images
REPOSITORY
                                        IMAGE ID
                                                       CREATED
                              TAG
alpine
                              latest
                                        1dc785547989
                                                                       7.73MB
                                                       4 weeks ago
busybox
                              latest
                                        a6969cfac53d
                                                       5 weeks ago
                                                                       4.04MB
couchdb
                              3.3.2
                                        cb7b80ab6c0b
                                                       7 weeks ago
                                                                       195MB
hyperledger/fabric-tools
                                        39bbbbed10cd
                                                       2 months ago
                                                                       497MB
                              latest
hyperledger/fabric-orderer
                              latest
                                        0c9844fe2b86
                                                       2 months ago
                                                                       97.7MB
hyperledger/fabric-peer
                                                       2 months ago
                                        8606f5146937
                                                                       131MB
                              latest
hyperledger/fabric-ca
                              latest
                                        218e353aa96a
                                                       4 months ago
                                                                       203MB
hyperledger/fabric-nodeenv
                                        b6ed83de2e95
                                                                       445MB
                              2.5
                                                       6 months ago
hello-world
                                        ee301c921b8a
                                                       8 months ago
                                                                       9.14kB
                              latest
```

```
sufiyanmemon@Sufiyans-Air FlaskApp % docker run alpine ls -l
total 56
drwxr-xr-x
              2 root
                                         4096 Dec
                                                   7 09:45 bin
                          root
                                          340 Jan 12 03:19 dev
drwxr-xr-x
              5 root
                          root
              1 root
                                         4096 Jan 12 03:19 etc
drwxr-xr-x
                          root
              2 root
                                                   7 09:45 home
drwxr-xr-x
                          root
                                         4096 Dec
              7 root
                                         4096 Dec
                                                   7 09:45 lib
drwxr-xr-x
                          root
                                         4096 Dec
                                                   7 09:45 media
drwxr-xr-x
              5 root
                          root
                                         4096 Dec
                                                   7 09:45 mnt
              2 root
drwxr-xr-x
                          root
drwxr-xr-x
              2 root
                          root
                                         4096 Dec
                                                   7 09:45 opt
            230 root
                                            0 Jan 12 03:19 proc
dr-xr-xr-x
                          root
              2 root
                                        4096 Dec
                                                   7 09:45 root
drwx----
                          root
                                        4096 Dec
                                                   7 09:45 run
drwxr-xr-x
              2 root
                          root
                                         4096 Dec
                                                   7 09:45 sbin
drwxr-xr-x
              2 root
                          root
                                        4096 Dec
              2 root
                                                   7 09:45 srv
drwxr-xr-x
                          root
                                            0 Jan 12 03:19 sys
dr-xr-xr-x
             12 root
                          root
drwxrwxrwt
              2 root
                                         4096 Dec
                                                   7 09:45 tmp
                          root
              7 root
                                        4096 Dec
                                                   7 09:45 usr
drwxr-xr-x
                          root
drwxr-xr-x
             12 root
                          root
                                         4096 Dec
                                                   7 09:45 var
sufiyanmemon@Sufiyans-Air FlaskApp %
```

sufiyanmemon@Sufiyans-Air FlaskApp % docker run alpine /bin/sh o sufiyanmemon@Sufiyans-Air FlaskApp % ■

```
[sufiyanmemon@Sufiyans-Air ~ % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
```

```
|sufiyanmemon@Sufiyans-Air ~ % docker ps -a
CONTAINER ID IMAGE COMMAND
ea0e4b6db89c alpine "/bin/sh"
a7b77555c788 alpine "/bin/sh"
                                                                                                                     CREATED
                                                                                                                                                                                                                                      PORTS
                                                                                                                                                                  STATUS
                                                                                                                                                                                                                                                             NAMES
                                                                                                                                                                 Exited (0) 14 seconds ago
Exited (0) About a minute ago
Exited (0) About a minute ago
Exited (0) 2 minutes ago
Exited (0) 8 minutes ago
ea0e4b6db89c
a7b77555c788
6f02b971eddf
                                                                                                                     42 seconds ago
                                                                                                                                                                                                                                                             funny_satoshi
                                                                                                                     About a minute ago
About a minute ago
                                                                                                                                                                                                                                                            pensive_neumann wizardly_pascal
                                                               "echo 'hello from al..."
"ls -l"
"/hello"
                                 alpine
                                 alpine
hello-world
                                                                                                                     2 minutes ago
8 minutes ago
                                                                                                                                                                                                                                                            reverent_engelbart interesting_ellis
 1296cd305336
 0a41accdb5dc
```

```
• sufiyanmemon@Sufiyans-Air FlaskApp % docker run -it alpine /bin/sh
/ # ls
bin dev etc home lib media mnt opt proc root run sbin srv sys tmp usr var
/ # uname -a
Linux 8a3049305e21 6.5.11-linuxkit #1 SMP PREEMPT Wed Dec 6 17:08:31 UTC 2023 aarch64 Linux
/ # exit
o sufiyanmemon@Sufiyans-Air FlaskApp %
```

2.0 Webapps with Docker

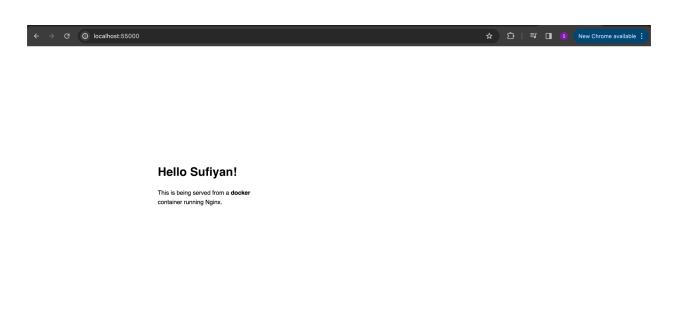
2.1 Run a static website in a container

sufiyanmemon@Sufiyans-Air Class % docker run -d static-site
 51e5276434725ba5d60de1be641691799ad9fb8037906b622bcdfcab7a25dd7c
 sufiyanmemon@Sufiyans-Air Class % ■

```
[sufiyanmemon@Sufiyans-Air ~ % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
51e527643472 static-site "/docker-entrypoint..." 7 minutes ago Up 7 minutes 80/tcp focused_tu
cufiyanmemon@Sufiyans-Air * % docker stop 51e527643472
```

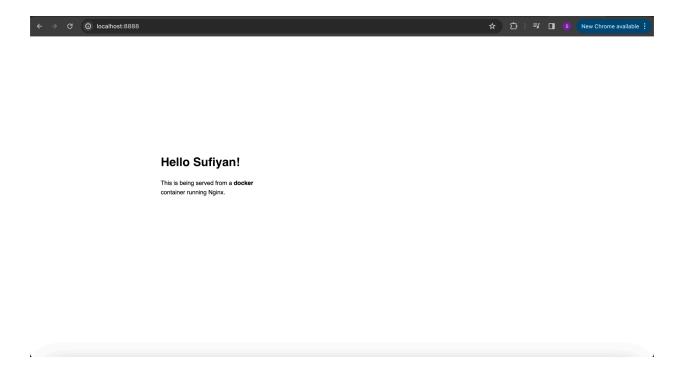
51e527643472
[sufiyanmemon@Sufiyans-Air ~ % docker rm 51e527643472
51e527643472
sufiyanmemon@Sufiyans-Air ~ %

```
sufiyanmemon@Sufiyans-Air StaticWebsite % docker run --name static-site -e AUTHOR="Sufiyan" -d -P 9b4d55bd397c
21541b8dfac6d417a223589a132869a23093865cbf58dffd0bfcc461f425eeef
sufiyanmemon@Sufiyans-Air StaticWebsite % docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS N
AMES
21541b8dfac6 9b4d55bd397c "/docker-entrypoint..." 17 seconds ago Up 16 seconds 0.0.0.0:55000->80/tcp s
tatic-site
sufiyanmemon@Sufiyans-Air StaticWebsite % docker port static-port
Error response from daemon: No such container: static-port
sufiyanmemon@Sufiyans-Air StaticWebsite % docker port static-site
80/tcp -> 0.0.0.0:55000
```

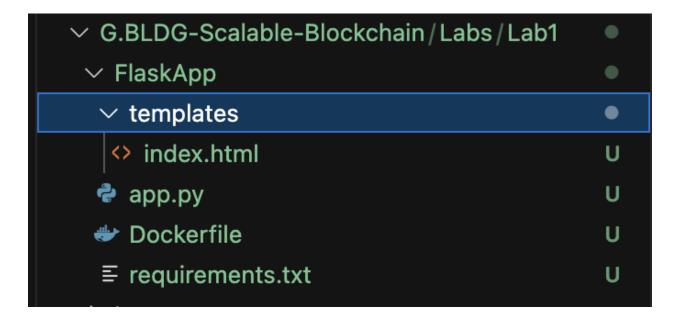


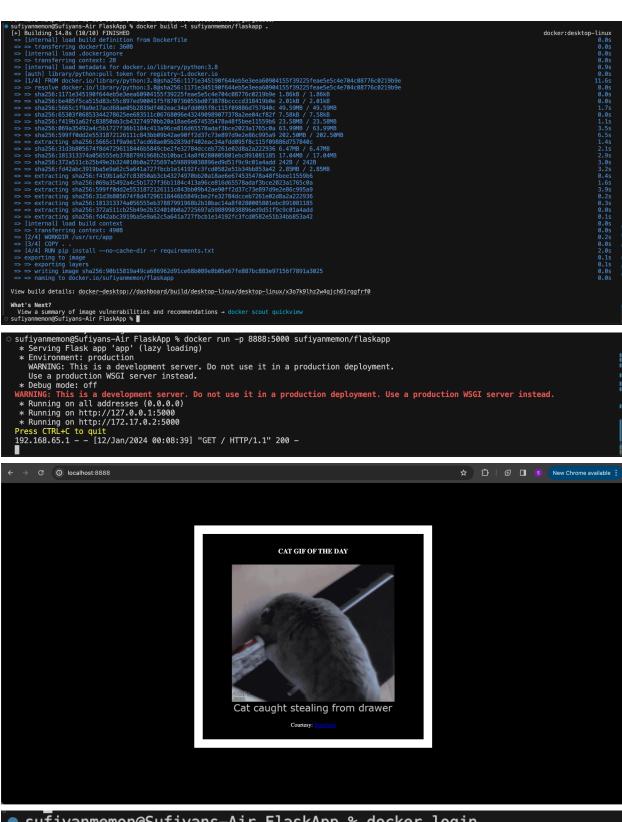
```
sufiyanmemon@Sufiyans-Air StaticWebsite % docker run —name static-site2 —e AUTHOR="Sufiyan" —d —p 8888:80 9b4d55bd397c
024e74488a8afa975bf2a650c3fa86977555e699667d901883f75524c0eac290

sufiyanmemon@Sufiyans-Air StaticWebsite % docker ps
CONTAINER ID IMAGE COMMAND
024e74488a8a 9b4d55bd397c "/docker-entrypoint..." 4 minutes ago
sufiyanmemon@Sufiyans-Air StaticWebsite % docker por static-site2
80/tcp ~ 0.0.0.81888
sufiyanmemon@Sufiyans-Air StaticWebsite % docker stop static-site
static-site
sufiyanmemon@Sufiyans-Air StaticWebsite % docker stop static-site2
sufiyanmemon@Sufiyans-Air StaticWebsite % docker ps
container in Image
suffyrmemon@Sufiyans-Air StaticWebsite % docker ps
container in Image
suffyrmemon@Sufiyans-Air StaticWebsite % docker ps
co
```



2.3 Create your first image





 sufiyanmemon@Sufiyans-Air FlaskApp % docker login Authenticating with existing credentials... Login Succeeded

