Seif El-Din Mohamed Aboelhassan Hendawy Lab 3

Problem 1:

Create a reactjs simple app

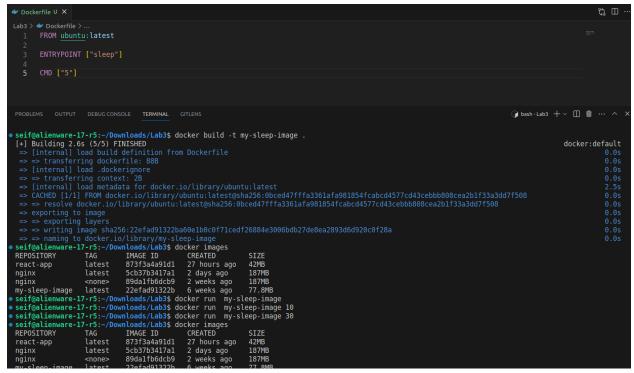
Create a dockerfile to containerize the reactapp

Build the image and test it

(Bonus) create a dockerfile for the same app in smaller size using multi staging



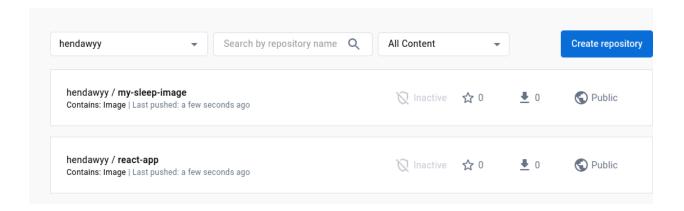
Problem 2: Create a dockerfile for ubuntu image which sleeps by default for 5 sec or sleeps according to the given number in the docker command



Problem 3:

Push the images created in Problem 1&2 into your docker hub repo

```
seif@alienware-17-r5:~/Downloads/Lab3$ docker images
 REPOSITORY
                             IMAGE ID
                                             CREATED
                                                            SIZE
                  TAG
 react-app
                   latest
                             873f3a4a91d1
                                             27 hours ago
                                                            42MB
nginx
                             5cb37b3417a1
                                            2 days ago
                                                            187MB
                  latest
                             89da1fb6dcb9
                                            2 weeks ago
 nginx
                  <none>
                                                            187MB
 my-sleep-image
                  latest
                             22efad91322b
                                            6 weeks ago
                                                            77.8MB
seif@alienware-17-r5:~/Downloads/Lab3$ docker login
 Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to
 Username: hendawyy
 Password:
 WARNING! Your password will be stored unencrypted in /home/seif/.docker/config.json.
 Configure a credential helper to remove this warning. See
 https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
⊳sei̇́f@alienware-17-r5:~/Downloads/Lab3$ docker tag react-app:latest hendawyy/react-app:latest
▶ <mark>seif@alienware-17-r5:~/Downloads/Lab3</mark>$ docker tag my-sleep-image:latest hendawyy/my-sleep-image:latest
seif@alienware-17-r5:~/Downloads/Lab3$ docker push hendawyy/react-app:latest
 The push refers to repository [docker.io/hendawyy/react-app]
 75a65dc19327: Pushed
 abaf9665d5d7: Mounted from library/nginx
 6ec20fc79771: Mounted from library/nginx
 6f2a9eaf22e9: Mounted from library/nginx
 b938c7b9f1b5: Mounted from library/nginx
 de91f65bcbc4: Mounted from library/nginx
 ba960ae476af: Mounted from library/nginx
 604cbedf1215: Mounted from library/nginx
 36b50b131297: Mounted from library/nginx
 latest: digest: sha256:4b8ec18f2dad3bf658cc869bd317183887e751a1d3fa2b7c8649d0b2efef5b1a size: 2199
 seif@alienware-17-r5:~/Downloads/Lab3$ docker push hendawyy/my-sleep-image:latest
The push refers to repository [docker.io/hendawyy/my-sleep-image] 59c56aeelfb4: Mounted from library/ubuntu
 latest: digest: sha256:d49678d07fade82058c8047899b49215e725bfde3cab5435a4066528dc99a942 size: 529
```



Problem 4: Create 2 nginx containers with network type bridge, enter to one of them and use curl

command to view the ccontent of the other container.

```
seif@alienware-17-r5:~$ docker network create my-network
seif@alienware-17-r5:~$ docker run -d --name nginx-c1 --network my-network nginx
346a6142387ac45a395c8d4f21e75a76b54914bca1e47cc1b494213af1ca5097
seif@alienware-17-r5:~$ docker run -d --name nginx-c2 --network my-network nginx
d96cfd4f3aa94cb92b87830f4d53c3de033a51336ea90134c350a643b4e7b313
seif@alienware-17-r5:~$ docker exec -it nginx-c1 /bin/bash
root@346a6142387a:/# curl nginx-c2
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
<em>Thank you for using nginx.</em>
</body>
</html>
root@346a6142387a:/#
```