Lab

- P1: Create your own nginx docker image based on ubuntu "NEVER USE FROM nginx"
 - Install nginx
 - copy index.html as file to "/usr/share/nginx/html" with message ""
 - Start nginx
 - Expose port
 - Docker push to your register on dockerhub
- P2: What is the rest of Docker Networks? "Name and Definition"
- P3: Create your bridge network, two containers from ubuntu image with different names and try to ping each other using NAME.

Lab

• 1- create Dockerfile to create nginx, replace override index.html of nginx with content "
Hello ITI heros from Dockerfile"

```
FROM nginx

COPY index.html /usr/share/nginx/html/
```

• 2-repeate previous task without using NGINX as a base, use ubuntu

```
FROM ubuntu

RUN apt update && apt install -y nginx

#COPY index.html /usr/share/nginx/html/

# in 2019 there is an edit in nginx

COPY index.html /var/www/html/

#CMD ["service", "nginx", "start"]

CMD ["nginx", "-g", "daemon off;"]
```

Lab

- 3- create cutom nginx image "DON'T USE NGINX AS BASE" with the following needs:
 - Create Dockerfile with name Dockerfile9090
 - Dockerfile will have the following steps:
 - Use alpine as your Base
 - Run following commands "apk update. ,AND apk add nginx"
 - Create Directory called /data
 - Compress the file index.html to index.html.tar.gz
 - Copy index.html.tar.gz file to /data
 - Copy the nginx-9090.conf file to /etc/nginx/http.d/
 - Expose port 9090
 - Use command to start the image → nginx -g daemon off;
 - Tag image with nginx9090
 - Image run container in background with name nginx-container-9090 and can listen from outside on port 8080

nginx-9090.conf

Index.html

Hello , ITI heroes . This nginx listen on port 9090

Cat Dockerfile9090

FROM alpine

RUN apk update && apk add nginx

WORKDIR /data

ADD index.html.tar.gz /data

COPY nginx-9090.conf /etc/nginx/http.d/

EXPOSE 9090

CMD ["nginx", "-g", "daemon off;"]

\$ tar -czvf index.html.tar.gz index.html

\$ docker build -t nginx9090 -f Dockerfile.9090 .

\$ docker run -d -p 8080:9090 --name nginx-container nginx9090