

Steps to replicate Docker solution

- 1) We create the docker file then build the image

```
base ~/Documents/GitHub/Exam-FullStack (0.635s)
docker build -t my-nginx-image .

[+] Building 0.2s (10/10) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 345B                                              0.0s
=> [internal] load .dockerignore                                                 0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/nginx:alpine                 0.0s
=> [1/5] FROM docker.io/library/nginx:alpine                                    0.0s
=> [internal] load build context                                                0.0s
=> => transferring context: 340B                                               0.0s
=> CACHED [2/5] WORKDIR /usr/share/nginx/html                                  0.0s
=> CACHED [3/5] RUN echo "Hello from the Docker container!" > hello.txt        0.0s
=> CACHED [4/5] RUN mkdir CopyDirectory                                         0.0s
=> [5/5] COPY . /app                                                            0.0s
=> exporting to image                                                            0.0s
=> => exporting layers                                                         0.0s
=> => writing image sha256:699eefe0697cd764d5bbc0633d4a231f0ad85a96e27424d1a57df518935a275d 0.0s
=> => naming to docker.io/library/my-nginx-image                             0.0s

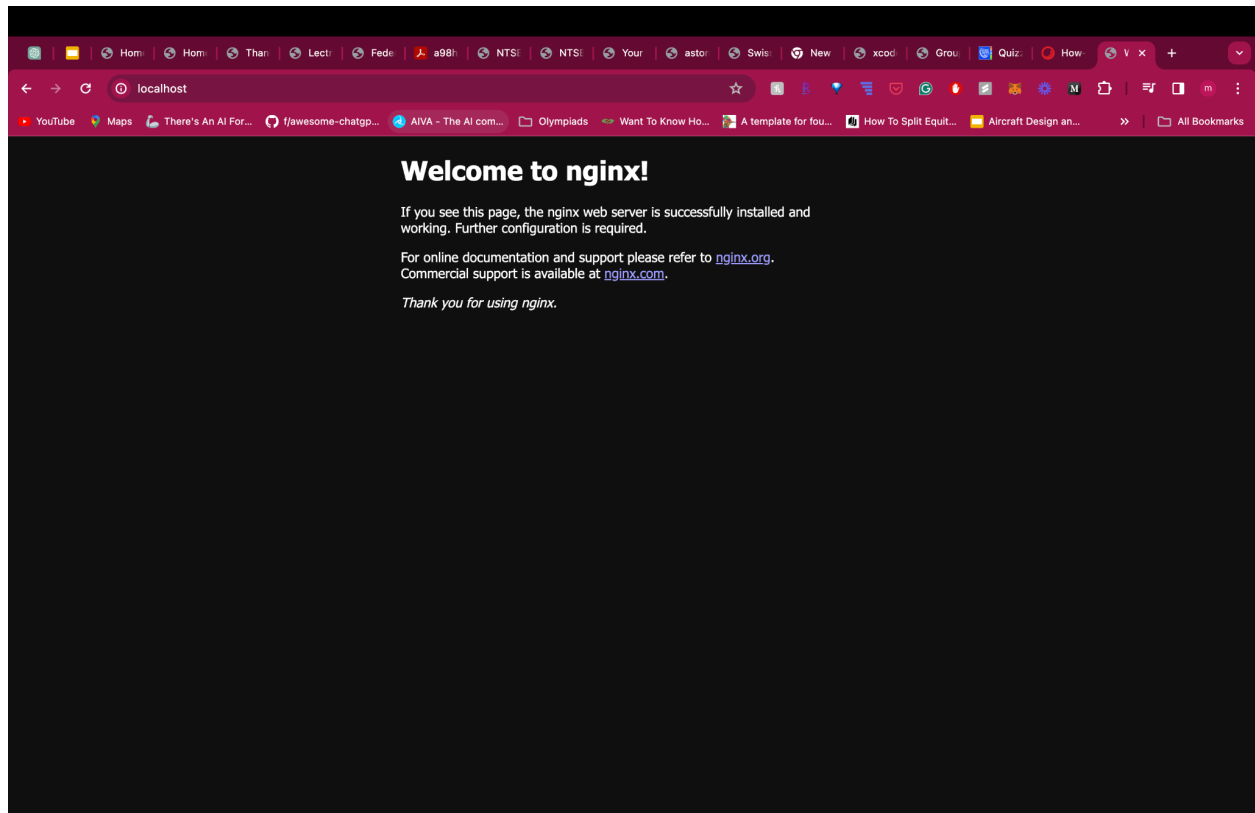
base ~/Documents/GitHub/Exam-FullStack (0.16s)
docker stop $(docker ps -a -q) && docker rm $(docker ps -a -q)
"docker stop" requires at least 1 argument.
See 'docker stop --help'.

Usage: docker stop [OPTIONS] CONTAINER [CONTAINER...]

Stop one or more running containers

base ~/Documents/GitHub/Exam-FullStack (0.407s)
docker run --name my-nginx-container -d -p 8000:80 my-nginx-image
83bfc994b5557839cab05f574003a75b5beb0f848081c0ff35e7f3ec73bbb709
```

- 2) Afterwards verify if our nginx server is up



- 3) We can further check if our created file is in the docker container

```
base ~/Documents/GitHub/Exam-FullStack (0.153s)
docker exec -it my-nginx-container ls /usr/share/nginx/html
50x.html      CopyDirectory  hello.txt      index.html
```

- 4)

Finally, see that our host directory was copied into our docker container

```
base ~/Documents/GitHub/Exam-FullStack (0.18s)
docker exec -it my-nginx-container ls /app
Dockerfile

base ~/Documents/GitHub/Exam-FullStack (0.172s)
docker exec -it my-nginx-container echo /app/Dockerfile
/app/Dockerfile

base ~/Documents/GitHub/Exam-FullStack (0.174s)
docker exec -it my-nginx-container cat /app/Dockerfile
# Use Nginx on Alpine as the base image
FROM nginx:alpine

# Expose port 80
EXPOSE 80

# Set the working directory inside the container
WORKDIR /usr/share/nginx/html

# Create a file in the working directory
RUN echo "Hello from the Docker container!" > hello.txt

RUN mkdir CopyDirectory

COPY . /app
```