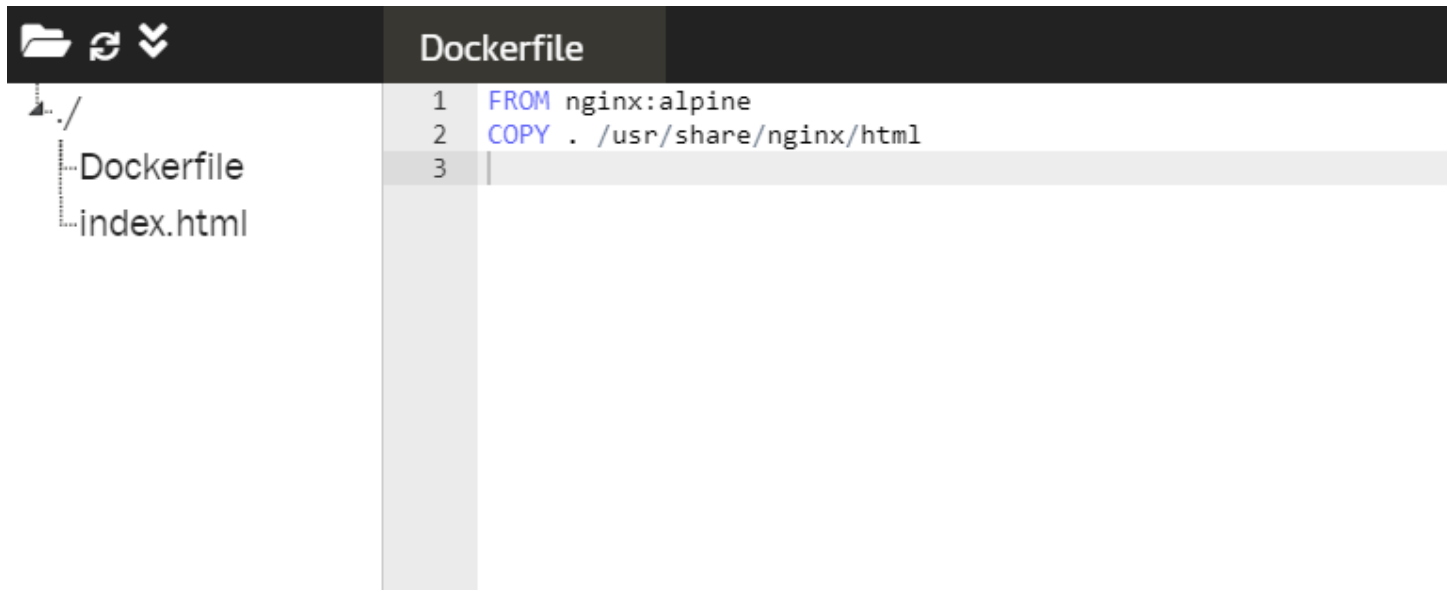


## Experiment 14

Roll no: R171218009

### Dockerfile, docker push, docker pull

Create Dockerfile to create new image from nginx:alpine and copy html page in it, with a hello message:



Build the docker image with this Dockerfile:

```
$ docker build -t webserver-image:v1 .  
Sending build context to Docker daemon 3.072kB  
Step 1/2 : FROM nginx:alpine  
--> 98ab35023fd6  
Step 2/2 : COPY . /usr/share/nginx/html  
--> 72062964a690  
Successfully built 72062964a690  
Successfully tagged webserver-image:v1  
$
```

List docker image:

```
$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
webserver-image	v1	72062964a690	39 seconds ago	22.3MB
nginx	alpine	98ab35023fd6	6 days ago	22.3MB
ubuntu	latest	16508e5c265d	2 years ago	84.1MB
redis	latest	4e8db158f18d	2 years ago	83.4MB
weaveworks/scope	1.9.1	4b07159e407b	2 years ago	68MB
alpine	latest	11cd0b38bc3c	2 years ago	4.41MB

```
$
```

Run docker container of the newly created docker image:

```
$ docker run -d -p 80:80 webserver-image:v1
bf45f496083372391b794af0624e4045bc8fa32f3f6bcf983725feee6e48e23d
```

Run “docker ps” command to list running containers:

```
$ docker ps
```

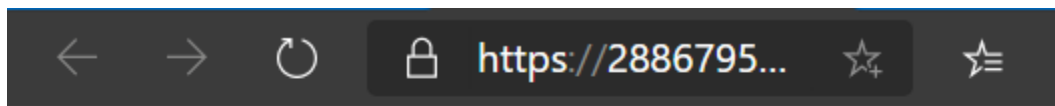
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
bf45f4960833	webserver-image:v1	"/docker-entrypoint..."	11 seconds ago	Up 9 seconds	0.0.0.0:80->80/tcp

```
practical_proskuriakova
```

Curl the html webpage:

```
$ curl docker
<h1>Hello World</h1>
```

Open the created webpage in browser to confirm the webserver is running:



Hello World

Login to ducker hub account:

```
$ 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 https://
hub.docker.com to create one.
Username: akanshab
Password:
Login Succeeded
$
```

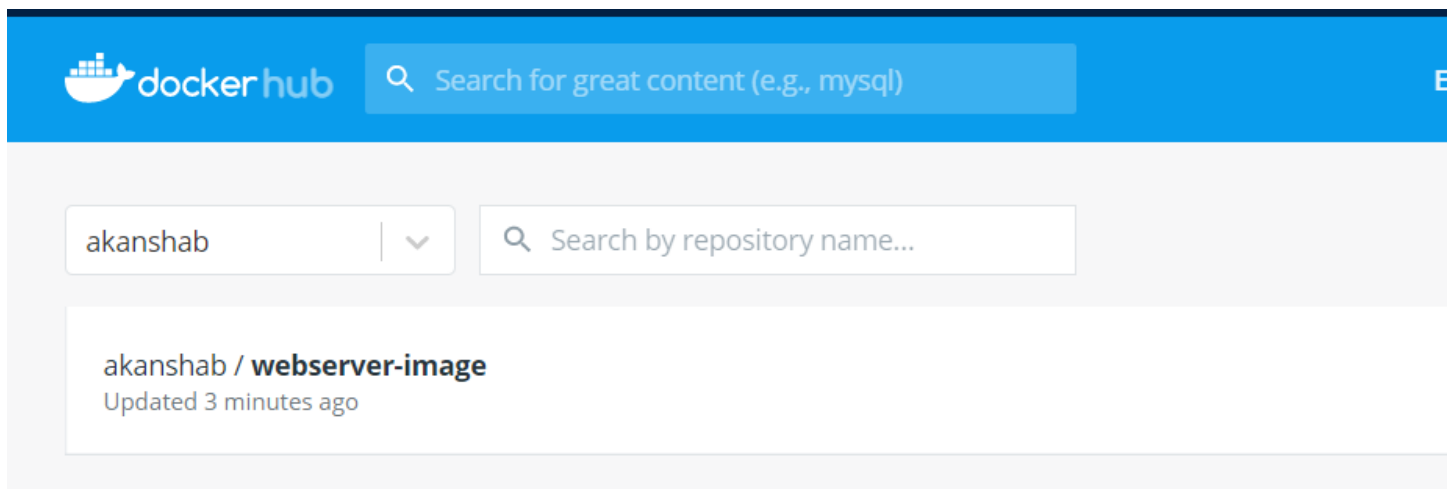
Tag the new image to associate it with account:

```
$ docker tag webserver-image:v1 akanshab/webserver-image
```

Push the image to docker hub using given tag:

```
$ docker push akanshab/webserver-image
The push refers to repository [docker.io/akanshab/webserver-image]
ba2bb7e1fdb5: Pushed
468af79aab10: Pushed
fbf82c12d86e: Pushed
4dc20fbc0e8d: Pushed
b831cc3ae47e: Pushed
ace0eda3e3be: Pushed
latest: digest: sha256:3ab057c71cecd4a2441c44acca4a8707cf09931be53d583dc3eaed0e47eb47a9 size: 1567
```

Image is pushed to docker hub:



Try pulling image from using given tag:

```
$ docker pull akanshab/webserver-image
Using default tag: latest
latest: Pulling from akanshab/webserver-image
Digest: sha256:3ab057c71cecd4a2441c44acca4a8707cf09931be53d583dc3eaed0e47eb47a9
Status: Image is up to date for akanshab/webserver-image:latest
$
```