Docker project:

- Create a Docker hub public repository
 Containerize our Apache webserver
 Upload image to your docker hub
 Have a friend from your cluster to pull your image and build it.
 Share screenshot of app in browser, and image uploaded
 - 1- Install docker on our cli

Since docker is installed, check status and start it

```
[ec2-user&ip-10-0-0-76 -]$ sudo sudo servive docker status
sudo: servive: command not found
[ec2-user&ip-10-0-0-76 -]$ sudo servive docker status
sudo: servive: command not found
[ec2-user&ip-10-0-0-76 -]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
d docker.service - Docker Application Container Engine
Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
Active: inactive (dead)
Docs: https://docs.docker.com
[ec2-user&ip-10-0-0-76 -]$ sudo service docker status
Redirecting to /bin/systemctl statt docker.service
[ec2-user&ip-10-0-0-76 -]$ sudo service docker status
Redirecting to /bin/systemctl statt docker.service
[ec2-user&ip-10-0-0-76 -]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
d docker.service - Docker Application Container Engine
Loaded: loaded (/usr/lib/system/docker.service; disabled; vendor preset: disabled)
Active: active (running) since Sat 2023-07-08 23:45:38 UTC; 2min 26s ago
Docs: https://docs.docker.com
Process: 3598 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
Process: 3598 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
Process: 3598 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)

Process: 3598 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)

Process: 3598 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)

Ju 08 23:45:37 ip-10-0-0-76.ec2.internal dockerd[3602]: time="2023-07-08723:45:37.796232442" level=info msg="ClientConn switch...=grpc
Jui 08 23:45:37 ip-10-0-0-76.ec2.internal dockerd[3602]: time="2023-07-08723:45:37.7682338998" level=warning msg="Your kernel do...ight"
Jui 08 23:45:37 ip-10-0-0-76.ec2.internal dockerd[3602]: time="2023-07-08723:45:37.7682338998" level=warning msg="Your kernel do...ight"
Jui 08 23:45:38 ip-10-0-0-76.ec2.internal dockerd[3602]: time="2023-07-08723:45:38.102849687 level=info msg="N
```

Built Dokerfile and index.html file

```
[ec2-user&ip-10-0-6-76 -]$ vim Dockerfile
[ec2-user&ip-10-0-0-76 -]$ cat Dockerfile
# specify a base image
From amazonlinux:2

# description
LABEL description="containainerize appache webapp"
LABEL maintainer="infrastructure as code best way to do it"
# run yum update
RUN yum -y update
# cpy index file from our computer to inside the container
COPY index.html /var/www/html

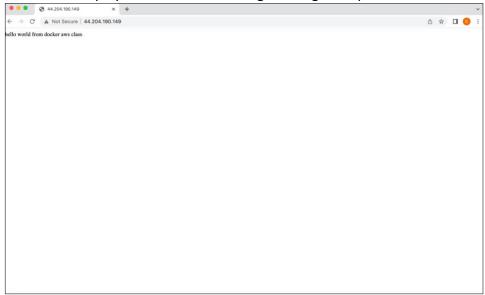
Expose 80
#install apache
RUN yum -y install httpd
# run httpd service when the container starts
ENTRYPOINT ( /var/shin/httpd]
# can override cmd in the background
CHD [ "-D" , "FORERQUARD" ]
[ ec2-user&ip-10-0-0-76 -]$
```

Build and run docker image

```
### RORR: "Gocker buildx build = help".

| See 'docker buildx build = help'.
| See 'docker buildx build edinition from bockerilage | See 'docker build edinition from bockerilage | See 'docker build edinition from build edinition from build edinition from build edinition from bockerilage | See 'docker build edinition from build edinition from build edinition from build edinition from bockerilage | See 'docker build edinition from build edini
```

Display the container message through ec2 public IP



Store our image on registry using our dockerhub account

Loging into the image using our dockerhub credential

```
ubuntu@ip-10-0-0-142:-$ 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: emireine
Password:
WARNING! Your password will be stored unencrypted in /home/ubuntu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
ubuntu@ip-10-0-0-142:-$
```

Since we loging into our dockerhub account via ec2 cli, lets tag and push the image

Our dockerhub repository

