Lab 2 - Your first docker images

Create a transitive image

Tips

- Use the `docker commit`

Make our image

1. Run `nginx` image detached with param `-p 80:80` named `mynginx1`

   docker run -d -p 80:80 --name mynginx1 nginx

2. Check that the nginx page (localhost:80)

   docker ps

CONTAINER ID IMAGE   COMMAND   CREATED   STATUS   PORTS   NAMES

d8ef6941b446 nginx   "/docker-entrypoint...." 9 seconds ago Up 8
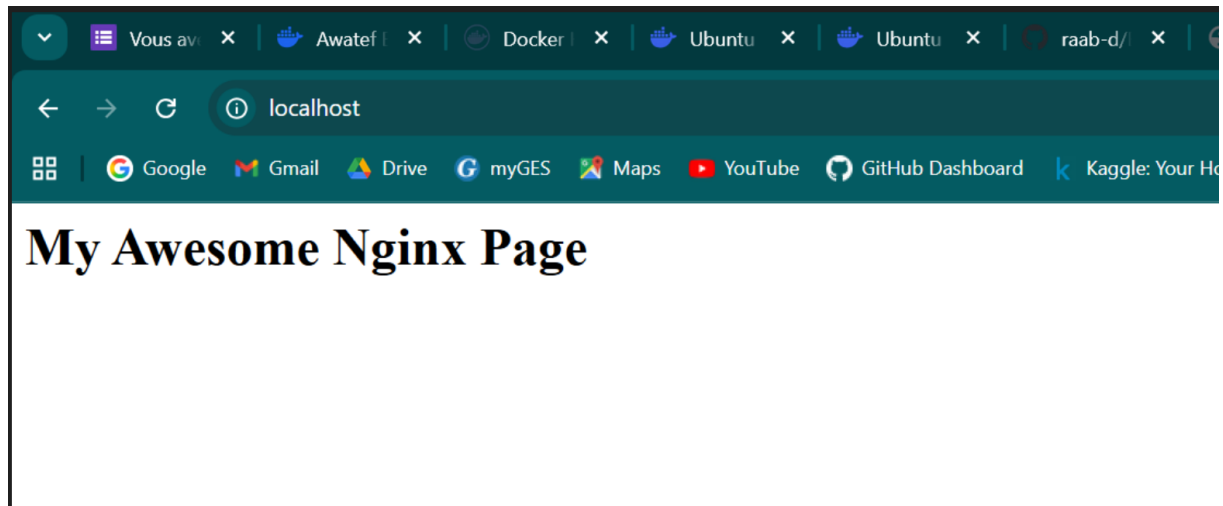seconds 0.0.0.0:80->80/tcp, [::]:80->80/tcp mynginx1

3. Run a shell without stopping the Container

   docker exec -it mynginx1 /bin/bash

4. Update the file `/usr/share/nginx/html/index.html` in the container

   echo "<h1>My Awesome Nginx Page</h1>" > /usr/share/nginx/html/index.html

5. Check that the nginx page has been updated (localhost:80)

My Awesome Nginx Page

6. Create a transitive image named `my_awsome_image`

docker commit mynginx1 my_awsome_image

7. Run the new image

docker run -d -p 8080:80 my_awsome_image

8. Check that the modifications are still present (localhost:80)

My Awesome Nginx Page

9. Check the layer with the `docker history` command

docker history my_awsome_image

```
ubuntu_user@DESKTOP-M1M277H:~$ docker history my_awsome_image
IMAGE          CREATED         CREATED BY                                      SIZE      COMMENT
8dba0fad8465   3 minutes ago   nginx -g daemon off;                            1.2kB
ad5708199ec7   13 days ago     CMD ["nginx" "-g" "daemon off;"]                0B        buildkit.dockerfile.v0
<missing>      13 days ago     STOPSIGNAL SIGQUIT                              0B        buildkit.dockerfile.v0
<missing>      13 days ago     EXPOSE map[80/tcp:{}]                          0B        buildkit.dockerfile.v0
<missing>      13 days ago     ENTRYPOINT ["/docker-entrypoint.sh"]           0B        buildkit.dockerfile.v0
<missing>      13 days ago     COPY 30-tune-worker-processes.sh /docker-ent…  4.62kB    buildkit.dockerfile.v0
<missing>      13 days ago     COPY 20-envsubst-on-templates.sh /docker-ent…  3.02kB    buildkit.dockerfile.v0
<missing>      13 days ago     COPY 15-local-resolvers.envsh /docker-entryp…  389B      buildkit.dockerfile.v0
<missing>      13 days ago     COPY 10-listen-on-ipv6-by-default.sh /docker…  2.12kB    buildkit.dockerfile.v0
<missing>      13 days ago     COPY docker-entrypoint.sh / # buildkit         1.62kB    buildkit.dockerfile.v0
<missing>      13 days ago     RUN /bin/sh -c set -x     && groupadd --syst…  118MB     buildkit.dockerfile.v0
<missing>      13 days ago     ENV DYNPKG_RELEASE=1~bookworm                  0B        buildkit.dockerfile.v0
<missing>      13 days ago     ENV PKG_RELEASE=1~bookworm                     0B        buildkit.dockerfile.v0
<missing>      13 days ago     ENV NJS_RELEASE=1~bookworm                     0B        buildkit.dockerfile.v0
<missing>      13 days ago     ENV NJS_VERSION=0.9.1                          0B        buildkit.dockerfile.v0
<missing>      13 days ago     ENV NGINX_VERSION=1.29.1                       0B        buildkit.dockerfile.v0
<missing>      13 days ago     LABEL maintainer=NGINX Docker Maintainers <d…  0B        buildkit.dockerfile.v0
<missing>      2 weeks ago     # debian.sh --arch 'amd64' out/ 'bookworm' '…  74.8MB    debuerreotype 0.15
ubuntu_user@DESKTOP-M1M277H:~$
```

Upload our image

1. Tag your image with the tag `<dockerHubId>/my_awsome_image:1.0`

 docker tag my_awsome_image AwatefBR/my_awsome_image:1.0

2. List your docker images

   1. What do you see ?

3. Use the CLI to log into your docker account

docker login

4. Push your image

docker push AwatefBR/my_awsome_image:1.0

5. Check that your image is available on `https://hub.docker.com/repository/docker/AwatefBR/my_awsome_image/`

6. Delete the repository `https://hub.docker.com/repository/docker/AwatefBR/my_awsome_image/settings`