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

Unable to find image 'nginx:latest' locally

latest: Pulling from library/nginx 8820d4aadbcd: Pull complete 26be9a3603ae: Pull complete d8ded761e35b: Pull complete ddc6b36d0e36: Pull complete 9a80f9a05524: Pull complete baccdd222209: Pull complete 8db204c3cb06: Pull complete

Digest:

sha256:33e0bbc7ca9ecf108140af6288c7c9d1ecc77548cbfd3952fd8466a75edef

e57

Status: Downloaded newer image for nginx:latest

7b5969362aa8b5b0e636dfe87e826b5fcbedce88213a0a211c86571f8d76ccd8

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

curl http://localhost:80

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

3. Run a shell without stopping the Container

docker exec -it mynginx1 sh

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

echo "Hello There!" > /usr/share/nginx/html/index.html

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

curl http://localhost:80

Hello There!

Create a transitive image named my_awsome_image

docker commit mynginx1 my_awsome_image

sha256:c912ae197968c39f708550ea7997d566a2491ab1394b525d08784b6f2e5 52878

7. Run the new image

docker run -d -p 8080:80 --name mynginx2 my_awsome_image

a05f6922344fa427192e54c90e87bcfe5fee3624e804b411baaa0f2c7b84fc96

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

curl http://localhost:8080

Hello There!

9. Check the layer with the docker history command

docker history my_awsome_image

IMAGE CREATED CREATED BY SIZE COMMENT

c912ae197968 3 minutes ago nginx -g daemon off; 81.9kB

33e0bbc7ca9e 13 days ago CMD ["nginx" "-g" "daemon off;"] 0B

buildkit.dockerfile.v0

- 13 days ago STOPSIGNAL SIGQUIT 0B buildkit.dockerfile.v0
- 13 days ago EXPOSE map[80/tcp:{}] 0B buildkit.dockerfile.v0
- 13 days ago ENTRYPOINT ["/docker-entrypoint.sh"] 0B buildkit.dockerfile.v0
- 13 days ago COPY 30-tune-worker-processes.sh /docker-ent... 16.4kB

buildkit.dockerfile.v0

13 days ago COPY 20-envsubst-on-templates.sh /docker-ent... 12.3kB

buildkit.dockerfile.v0

13 days ago COPY 15-local-resolvers.envsh /docker-entryp... 12.3kB

buildkit.dockerfile.v0

13 days ago COPY 10-listen-on-ipv6-by-default.sh /docker... 12.3kB

buildkit.dockerfile.v0

13 days ago COPY docker-entrypoint.sh / # buildkit 8.19kB

buildkit.dockerfile.v0

13 days ago RUN /bin/sh -c set -x && groupadd --syst... 105MB

buildkit.dockerfile.v0

PROFESSEUR: M.DA ROS

- 13 days ago ENV DYNPKG_RELEASE=1~bookworm 0B buildkit.dockerfile.v0
- 13 days ago ENV PKG_RELEASE=1~bookworm 0B buildkit.dockerfile.v0
- 13 days ago ENV NJS_RELEASE=1~bookworm 0B buildkit.dockerfile.v0
- 13 days ago ENV NJS_VERSION=0.9.1 0B buildkit.dockerfile.v0
- 13 days ago ENV NGINX_VERSION=1.29.1 0B buildkit.dockerfile.v0
- 13 days ago LABEL maintainer=NGINX Docker Maintainers <d... 0B buildkit.dockerfile.v0
- 2 weeks ago # debian.sh --arch 'arm64' out/ 'bookworm' '... 108MB debuerreotype 0.15

Upload our image

1. Tag your image with the tag

```
<dockerHubId>/my_awsome_image:1.0
```

docker tag my_awsome_image samigrbj/my_awsome_image:1.0

- List your docker images docker images
 - 1. What do you see?

REPOSITORY TAG IMAGE ID CREATED SIZE

my_awsome_image latest c912ae197968 7 minutes ago 281MB samigrbj/my_awsome_image 1.0 c912ae197968 7 minutes ago 281MB

samigrbj/mynodejs 1.0 f99bd2628ca9 About an hour ago 18.5MB mynodejs latest f99bd2628ca9 About an hour ago 18.5MB nginx latest 33e0bbc7ca9e 13 days ago 281MB n8nio/n8n latest 4a475a6fdeb9 3 weeks ago 1.69GB alpine latest 4bcff63911fc 6 weeks ago 13.3MB postgres 15 5ab68e212eab 2 months ago 628MB jupyter/scipy-notebook latest fca4bcc9cbd4 22 months ago 5.42GB

3. Use the CLI to log into your docker account

docker login

4. Push your image

docker push samigrbj/my_awsome_image:1.0

The push refers to repository [docker.io/samigrbj/my_awsome_image]

baccdd222209: Mounted from library/nginx 26be9a3603ae: Mounted from library/nginx 8db204c3cb06: Mounted from library/nginx ddc6b36d0e36: Mounted from library/nginx d8ded761e35b: Mounted from library/nginx 8820d4aadbcd: Mounted from library/nginx

5802b9c6c507: Pushed

9a80f9a05524: Mounted from library/nginx

1.0: digest:

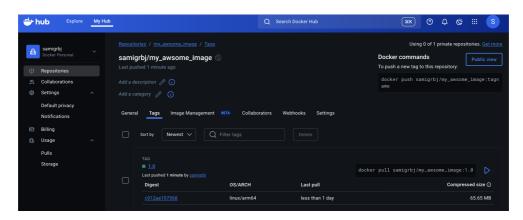
sha256:c912ae197968c39f708550ea7997d566a2491ab1394b525d08784b6f2e5

52878 size: 2037

5. Check that your image is available on

https://hub.docker.com/repository/docker/<dockerHubId
>/my_awsome_image/

https://hub.docker.com/repository/docker/samigrbj/my_awsome_image/



6. Delete the repository

https://hub.docker.com/repository/docker/<dockerHubId
>/my_awsome_image/settings

https://hub.docker.com/repository/docker/samigrbj/my_awsome_image/setting s

