29.4 Docker overview: Homework (Basic)

- 1. Pull image "bash" and get the id of the image from metadata.
- 2. Start the container from the "bash" image with name <your_username>_hw_1, run the command "ls" inside it (pass it as an argument without detaching) and show the output.
- 3. Check the metadata of the "nginx" image and get:
 - version of nginx application (check the environment section)
 - e-mail address of its maintainer
- 4. Create <your_username>_index.html with random content and mount it to /usr/share/nginx/html/index.html inside a new container based on nginx image (name it <your_username>_hw_2). Then show the output of «curl -v localhost» executed inside this container.
- 1. Pull image "bash" and get the id of the image from metadata.

Pulled "bash": \$ docker pull bash

Using default tag: latest

latest: Pulling from library/bash 4abcf2066143: Pull complete 9202680e8b04: Pull complete 9348d69e180f: Pull complete

Digest: sha256:8e45c8ffe44db8784197f7c849a22292b446d76895f65646717b5a2152114d6e

Status: Downloaded newer image for bash:latest

docker.io/library/bash:latest

Checked that image "bash" is downloaded:

\$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE bash latest **b6281a9c2552** 6 weeks ago 14MB

id of the image from metadata: b6281a9c2552

2. Start the container from the "bash" image with name <your_username>_hw_1, run the command "ls" inside it (pass it as an argument without detaching) and show the output.

\$ docker run --name nkhaytovich1 hw 1 -d bash | Is -a

- . . .gitconfig .profile .vimrc
- .. .inputrc .ssh

- 3. Check the metadata of the "nginx" image and get:
 - version of nginx application (check the environment section)
 - e-mail address of its maintainer

Pulled "nginx":

\$ docker pull nginx

Using default tag: latest

latest: Pulling from library/nginx e1caac4eb9d2: Pull complete 88f6f236f401: Pull complete c3ea3344e711: Pull complete cc1bb4345a3a: Pull complete da8fa4352481: Pull complete c7f80e9cdab2: Pull complete 18a869624cb6: Pull complete

Digest:

sha256:c26ae7472d624ba1fafd296e73cecc4f93f853088e6a9c13c0d52f6ca5865107

Status: Downloaded newer image for nginx:latest

docker.io/library/nginx:latest

Checked metadata:

\$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE nginx latest e4720093a3c1 13 days ago 187MB

\$ docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES 743515dd0957 nginx "/docker-entrypoint...." 51 minutes ago Up 51 minutes

\$ docker exec 743515dd0957 nginx -v

nginx version: nginx/1.25.4

80/tcp nkhaytovich hw 1

Version of nginx application: 1.25.4.

e-mail address of its maintainer: docker-maint@nginx.com \$ docker inspect --format='{{index .Config.Labels "maintainer"}}' e4720093a3c1 NGINX Docker Maintainers <docker-maint@nginx.com>

4. Create <your_username>_index.html with random content and mount it to /usr/share/nginx/html/index.html inside a new container based on nginx image (name it <your_username>_hw_2). Then show the output of «curl -v localhost» executed inside this container.

Created .html:

```
echo "Hello, This is my first Docker Homework and it's hard for me" > /tmp/nkhaytovich index.html
```

Runed it:

\$ sudo docker run --name nkhaytovich_hw_2 -v /tmp/nkhaytovich_index.html:/usr/share/nginx/html/index.html -d nginx Result:

d2e94e05d32b7b5d97faa988e35b76a1a4dbea22e0e41a097a99eb2c8330dba0

Checked containers:

```
$ docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

d2e94e05d32b nginx "/docker-entrypoint...." 5 minutes ago Up 5 minutes 80/tcp nkhaytovich_hw_2

023a89d7560a bash "docker-entrypoint.s..." 16 minutes ago Exited (0) 16 minutes ago nkhaytovich1_hw_1

8128701fb490 bash "docker-entrypoint.s..." 19 minutes ago Exited (0) 19 minutes ago nkhaytovich_hw_1
```

\$ docker exec -it d2e94e05d32b bash

root@d2e94e05d32b:/# curl -v localhost

- * Trying 127.0.0.1:80...
- * Connected to localhost (127.0.0.1) port 80 (#0)
- > GET / HTTP/1.1
- > Host: localhost
- > User-Agent: curl/7.88.1
- > Accept: */*

>

- < HTTP/1.1 200 OK
- < Server: nginx/1.25.4
- < Date: Thu, 29 Feb 2024 07:08:26 GMT
- < Content-Type: text/html
- < Content-Length: 61
- < Last-Modified: Thu, 29 Feb 2024 06:50:15 GMT
- < Connection: keep-alive < ETag: "65e02927-3d"
- < Accept-Ranges: bytes
- _

Hello, This is my first Docker Homework and it's hard for me

* Connection #0 to host localhost left intact

root@d2e94e05d32b:/#