29.5 Docker Overview: Homework (Advanced)

Create your own image:

1. Base it on the bash image
2. Place the following command
   echo "<your welcome message>"
   to /root/.bashrc
3. Set 700 access permissions on /root/.bashrc
4. build an image with the name <your_username>_hw_5
5. run a container with the name <your_username>_hw_5
6. check the result by executing "bash" with interactive TTY mode in a new container

1. Base it on the bash image

$ docker pull 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

$ docker images
REPOSITORY   TAG   IMAGE ID   CREATED   SIZE
bash   latest   b6281a9c2552 6 weeks ago   14MB

2. Place the following command
echo "<your welcome message>"
to /root/.bashrc

Checked what is my working directory:
$ pwd
/root

Created Directory and build Dockerfile:
$ mkdir DockerFiles
$ cd DockerFiles/
[node1] (local) root@10.0.76.4 ~/DockerFiles

Created Dockerfile:
$ touch Dockerfile

Next, I've edited a file:
$ vim Dockerfile
  1 FROM bash
  2 RUN echo 'echo "Hello, this is my second Docker Homework"' >> /root/.bashrc

Here I checked what is inside a file:
$ cat Dockerfile:

```
$ cat Dockerfile
FROM bash
RUN echo 'echo "Hello, this is my second Docker Homework"' >> /root/.bashrc
```

3. Set 700 access permissions on /root/.bashrc

Here, I've edited a file:
$ vim Dockerfile

  1 FROM bash
  2 RUN echo 'echo "Hello, this is my second Docker Homework"' >> /root/.bashrc
  3 RUN chmod 700 /root/.bashrc

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1 FROM bash
2 RUN echo 'echo "Hello, this is my second Docker Homework"' >> /root/.bashrc
3 RUN chmod 700 /root/.bashrc
4
```

Checked what is inside a file:
$ cat Dockerfile

```
$ cat Dockerfile
FROM bash
RUN echo 'echo "Hello, this is my second Docker Homework"' >> /root/.bashrc
RUN chmod 700 /root/.bashrc
```

4. build an image with the name <your_username>_hw_5

$ docker build -t nkhaytovich_hw_5 .

```
[+] Building 1.0s (7/7) FINISHED                                    docker:default
 => [internal] load .dockerignore                          0.1s
 => => transferring context: 2B                            0.0s
 => [internal] load build definition from Dockerfile              0.1s
 => => transferring dockerfile: 152B                       0.0s
 => [internal] load metadata for docker.io/library/bash:latest          0.0s
 => [1/3] FROM docker.io/library/bash                      0.1s
 => [2/3] RUN echo 'echo "Hello, this is my second Docker Homework"' >> /root/.bashrc          0.3s
 => [3/3] RUN chmod 700 /root/.bashrc                      0.4s
 => exporting to image                                     0.1s
 => => exporting layers                                    0.1s
```

```
 => => writing image sha256:51af140b60c0a3580c23a02aa92c51d7bb786751ca4f66c8e81759a37b7cdf7f
0.0s
 => => naming to docker.io/library/nkhaytovich_hw_5                                    0.0s
```

5. run a container with the name <your_username>_hw_5

$ docker run --name nkhaytovich_hw_5 -d nkhaytovich_hw_5 sleep 600
Result:
30ed20622584c79cd9b0b0450d0b2df5b3c9a95c16506812aff811253b6c6068

6. check the result by executing "bash" with interactive TTY mode in a new container

Checked containers:
$ docker ps -a
CONTAINER ID   IMAGE   COMMAND   CREATED   STATUS   PORTS   NAMES
30ed20622584   nkhaytovich_hw_5 "docker-entrypoint.s..."   48 seconds ago   Up 47 seconds
nkhaytovich_hw_5

Checker result:
$ docker run --name nkhaytovich_hw_6 -it nkhaytovich_hw_5 bash
Hello, this is my second Docker Homework
bash-5.2#