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#