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gerassimos update S07 L04 and new exercise (final)

6c3381e 7 days ago

1 contributor

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# Section 7 - Container Images - Docker Hub Registry

## 4 Image Tagging and Pushing to Docker Hub - Exercise

Prerequisites:

- Docker Hub account
- Docker clean environment

### Exercise 1

1. Pull the `nginx` (latest) image from Docker hub
2. Use the `docker image tag` command and your Docker hub account name to create a your `nginx` Docker image from the official latest `nginx` Docker image

3. Use the `docker login` command to Log in to the Docker Hub registry
4. Use the `docker image push` command to upload the image to Docker Hub.
5. From the Docker Hub web UI verify that your nginx Docker image has been successfully created.

## Exercise 1 Solution

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1. Pull the `nginx` (latest) image from Docker hub

```
# docker pull nginx

# docker image ls nginx
REPOSITORY    TAG          IMAGE ID      CREATED       SIZE
...
nginx         latest      27a188018e18  10 days ago  109MB
...
```

2. Use the `docker image tag` command and your Docker hub account name to create a your nginx Docker image from the official latest nginx Docker image  
In the following example the *gerassimos* Docker account is used, you should specify your Docker Hub account

```
# docker image tag nginx gerassimos/nginx
# docker image ls
REPOSITORY    TAG          IMAGE ID      CREATED       SIZE
gerassimos/nginx latest      27a188018e18  10 days ago  109MB
nginx         latest      27a188018e18  10 days ago  109MB
...
```

3. Use the `docker login` command to Log in to the Docker Hub registry

```
# docker login
...
Username: gerassimos
Password:
...
Login Succeeded
```

- View the content of the `~/.docker/config.json` file to verify the result of the `docker login` command

```
# cat ~/.docker/config.json
{
    "auths": {
```

```
"https://index.docker.io/v1/": {
  "auth": "Z*****"
},
"HttpHeaders": {
  "User-Agent": "Docker-Client/18.06.1-ce (linux)"
}
```

4. Use the `docker image push` command to upload the image to Docker Hub.

```
# docker image push gerassimos/nginx
...
```

5. From the Docker Hub web UI verify that your nginx Docker image has been successfully created.

