MSK

Lab 1

Docker images installation

Author:

Ismoil Atajanov

The goal of the laboratory was to familiarize ourselves with docker and pull five different docker images.

First step was to install ubuntu which was completed using the official guide https://docs.docker.com/engine/install/ubuntu/ .

Successful execution of any docker command would confirm that the installation was successful e.g. *docker images.*

```
(base) zoobie@zoobieCOMP:~$ docker images
REPOSITORY                           TAG                   IMAGE ID        CREATED         SIZE
jup                                  latest                43bf53a18647    6 days ago      4.62GB
bioconductor/bioconductor_docker     devel                 cda7f8509643    2 weeks ago     4.02GB
postgres                             latest                c96f8b6bc0d9    2 weeks ago     314MB
jupyter/tensorflow-notebook          latest                31b16b2ac427    2 weeks ago     3.67GB
gcr.io/k8s-minikube/kicbase          v0.0.12-snapshot3     25ac91b9c8d7    2 months ago    952MB
hello-world                          latest                bf756fb1ae65    10 months ago   13.3kB
```

To download a ready image from Docker hub *docker pull* comand is used, e.g. image for Nodejs:

```
hello-world                          latest                bf756fb1ae65
(base) zoobie@zoobieCOMP:~$ docker pull node
Using default tag: latest
latest: Pulling from library/node
0400ac8f7460: Pull complete
fa8559aa5ebb: Pull complete
da32bfbbc3ba: Pull complete
e1dc6725529d: Pull complete
572866ab72a6: Pull complete
63ee7d0b743d: Pull complete
8c322550c0ed: Pull complete
3a9ca1673e31: Pull complete
64feb390fd3e: Pull complete
Digest: sha256:bf60a164bc588967ce6e3342c9d6508bf9ad2e7e2a1c237315596eab3e1
Status: Downloaded newer image for node:latest
docker.io/library/node:latest
```

Then executing docker images command again can be used to verify that the image was pulled successfully.

The following command is used to run an image, for example a "jup" image that I had prepared which is an ubuntu image with jupyter notebook with Tenserflow hub examples installed:

docker run –p 8888:8888 jup

The jupyter notebook is then available from the browser at localhost:8888: