First Images and Containers

# Create own image & commit

In this assignment you will create your own customized apache web server image…

* Use an ubuntu image with tag “20.04”.
* Install apache2 on the image
* Commit the new image to a repository
  + add an author name to the commit
  + add a commit message
* Check if the new image is available
* Check the image with the ‘inspect’ command
* Run an interactive container from the image.
  + check if apache2 has been installed (with ‘which’ or ‘command -v’). *In an upcoming class we’ll see how to run the web server and how to access the web pages.*

Document the steps taken to perform the tasks:

| rodzers\_usackis@cloudshell:~$ docker run -it ubuntu:20.04 /bin/bash  root@a7379ec858f8:/# apt update  root@a7379ec858f8:/# apt install apache2  <Region - Europe, Timezone - Brussels>  root@a7379ec858f8:/# which apache2  /usr/sbin/apache2  root@a7379ec858f8:/# exit  exit  rodzers\_usackis@cloudshell:~$ docker ps -a  rodzers\_usackis@cloudshell:~$ docker commit --author="Rodzers Usackis" --message="Docker ubuntu image with apache2 installation" a73 assignment\_repository/ubuntu\_apache2  sha256:b33425b276f0813ce5fcccbbc15b5c87c0dcb111063fbd0b0bf186a763a5f71d  rodzers\_usackis@cloudshell:~$ docker images  “””  REPOSITORY TAG IMAGE ID CREATED SIZE  assignment\_repository/ubuntu\_apache2 latest b33425b276f0 36 seconds ago 221MB  “””  rodzers\_usackis@cloudshell:~$ docker inspect b33  “””  [  {  "Id": "sha256:b33425b276f0813ce5fcccbbc15b5c87c0dcb111063fbd0b0bf186a763a5f71d",  "RepoTags": [  "assignment\_repository/ubuntu\_apache2:latest"  ],  "RepoDigests": [],  "Parent": "sha256:53df61775e8856a464ca52d4cd9eabbf4eb3ceedbde5afecc57e417e7b7155d5",  "Comment": "Docker ubuntu image with apache2 installation",  "Created": "2022-05-09T23:01:06.630006879Z",  "Container": "a7379ec858f8dbb203dea461f3c29e016765698f2a45e884f5eacf50e125aa6d",  "ContainerConfig": {  "Hostname": "a7379ec858f8",  "Domainname": "",  "User": "",  "AttachStdin": true,  "AttachStdout": true,  "AttachStderr": true,  "Tty": true,  "OpenStdin": true,  "StdinOnce": true,  "Env": [  "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"  ],  "Cmd": [  "/bin/bash"  ],  "Image": "ubuntu:20.04",  "Volumes": null,  "WorkingDir": "",  "Entrypoint": null,  "OnBuild": null,  "Labels": {}  },  "DockerVersion": "20.10.14",  "Author": "Rodzers Usackis",  "Config": {  "Hostname": "a7379ec858f8",  "Domainname": "",  "User": "",  "AttachStdin": true,  "AttachStdout": true,  "AttachStderr": true,  "Tty": true,  "OpenStdin": true,  "StdinOnce": true,  "Env": [  "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"  ],  "Cmd": [  "/bin/bash"  ],  "Image": "ubuntu:20.04",  "Volumes": null,  "WorkingDir": "",  "Entrypoint": null,  "OnBuild": null,  "Labels": {}  },  "Architecture": "amd64",  "Os": "linux",  "Size": 221333195,  "VirtualSize": 221333195,  "GraphDriver": {  "Data": {  "LowerDir": "/var/lib/docker/overlay2/6035d17db7f66aef28a02a63d71b543e812f97763ba28723594168e65334eda8/diff",  "MergedDir": "/var/lib/docker/overlay2/613696a1fb930adc3c88525d41efa67f936721e28e9150d1731a5bf1dbf3cc74/merged",  "UpperDir": "/var/lib/docker/overlay2/613696a1fb930adc3c88525d41efa67f936721e28e9150d1731a5bf1dbf3cc74/diff",  "WorkDir": "/var/lib/docker/overlay2/613696a1fb930adc3c88525d41efa67f936721e28e9150d1731a5bf1dbf3cc74/work"  },  "Name": "overlay2"  },  "RootFS": {  "Type": "layers",  "Layers": [  "sha256:bf8cedc62fb3ef98ad0dff2be56ca451dd3ea69abd0031ad3e0fe5d9f9e4dfff",  "sha256:ca29ed009867616ff5ec4e5d99c07df887dc571bb13539d1576e52f21a423568"  ]  },  "Metadata": {  "LastTagTime": "2022-05-09T23:01:06.657473396Z"  }  }  ]  “””  rodzers\_usackis@cloudshell:~$ docker run -it b33  root@ba4331357af2:/# which apache2  /usr/sbin/apache2 |
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