

DOCKER BASIC COMMAND

1. cek perintah2 docker

```
padli@mrX:~  
padli@mrX:~$ sudo docker  
[sudo] password for padli:  
Usage: docker COMMAND  
A self-sufficient runtime for containers  
Options:  
  --config string      Location of client config files (default "/home/padli/.docker")  
  -D, --debug          Enable debug mode  
  -H, --host list       Daemon socket(s) to connect to  
  -l, --log-level string Set the logging level ("debug"|"info"|"warn"|"error"|"fatal") (default "info")  
  --tls               Use TLS; implied by --tlsverify  
  --tlscacert string   Trust certs signed only by this CA (default "/home/padli/.docker/ca.pem")  
  --tlscert string     Path to TLS certificate file (default "/home/padli/.docker/cert.pem")  
  --tlskey string      Path to TLS key file (default "/home/padli/.docker/key.pem")  
  --tlsverify          Use TLS and verify the remote  
  -v, --version        Print version information and quit  
Management Commands:  
  config      Manage Docker configs  
  container   Manage containers  
  image       Manage images  
  network     Manage networks  
  node        Manage Swarm nodes  
  plugin      Manage plugins  
  secret      Manage Docker secrets  
  service     Manage services  
  swarm       Manage Swarm  
  system      Manage Docker  
  trust       Manage trust on Docker images  
  volume      Manage volumes  
Commands:  
  attach      Attach local standard input, output, and error streams to a running container  
  build       Build an image from a Dockerfile  
  commit      Create a new image from a container's changes  
  cp          Copy files/folders between a container and the local filesystem  
  create      Create a new container  
  diff        Inspect changes to files or directories on a container's filesystem  
  events      Get real time events from the server  
  exec        Run a command in a running container  
  export      Export a container's filesystem as a tar archive
```

```
padli@mrX:~  
padli@mrX:~$ sudo docker container --help  
Usage: docker container COMMAND  
Manage containers  
Options:  
Commands:  
  attach      Attach local standard input, output, and error streams to a running container  
  commit      Create a new image from a container's changes  
  cp          Copy files/folders between a container and the local filesystem  
  create      Create a new container  
  diff        Inspect changes to files or directories on a container's filesystem  
  exec        Run a command in a running container  
  export      Export a container's filesystem as a tar archive  
  inspect     Display detailed information on one or more containers  
  kill        Kill one or more running containers  
  logs        Fetch the logs of a container  
  ls          List containers  
  pause       Pause all processes within one or more containers  
  port        List port mappings or a specific mapping for the container  
  prune       Remove all stopped containers  
  rename      Rename a container  
  restart     Restart one or more containers  
  rm          Remove one or more containers  
  run         Run a command in a new container  
  start       Start one or more stopped containers  
  stats       Display a live stream of container(s) resource usage statistics  
  stop        Stop one or more running containers  
  top         Display the running processes of a container  
  unpause     Unpause all processes within one or more containers  
  update      Update configuration of one or more containers  
  wait        Block until one or more containers stop, then print their exit codes  
Run 'docker container COMMAND --help' for more information on a command.  
padli@mrX:~$
```

2. cek docker info

```
padli@mrX:~$ sudo docker info
Containers: 1
  Running: 0
  Paused: 0
  Stopped: 1
Images: 2
Server Version: 18.03.0-ce
Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
  Native Overlay Diff: true
Logging Driver: json-file
Cgroup Driver: cgroupfs
Plugins:
  Volume: local
  Network: bridge host macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-file logentries splunk syslog
Swarm: inactive
Runtimes: runc
  Default Runtime: runc
  Init Binary: docker-init
  containerd version: cfd04396dc68220d1cecb6686a6cc3aa5ce3667c
  runc version: 4fc53a81fb7c994640722ac585fa9ca548971871
  init version: 949e6fa
Security Options:
  apparmor
  seccomp
   Profile: default
Kernel Version: 4.4.0-121-generic
Operating System: Ubuntu 16.04.4 LTS
OSType: linux
Architecture: x86_64
CPUs: 8
Total Memory: 15.63GiB
Name: mrX
ID: YMTD:R2P6:FS3C:YLSP:DWQA:RWIO:I4SE:6Q2D:BG2E:HQKG:ICIR:DRVU
Docker Root Dir: /var/lib/docker
Debug Mode (client): false
Debug Mode (server): false
Username: julian23
Registry: https://index.docker.io/v1/
Labels:
Experimental: false
```

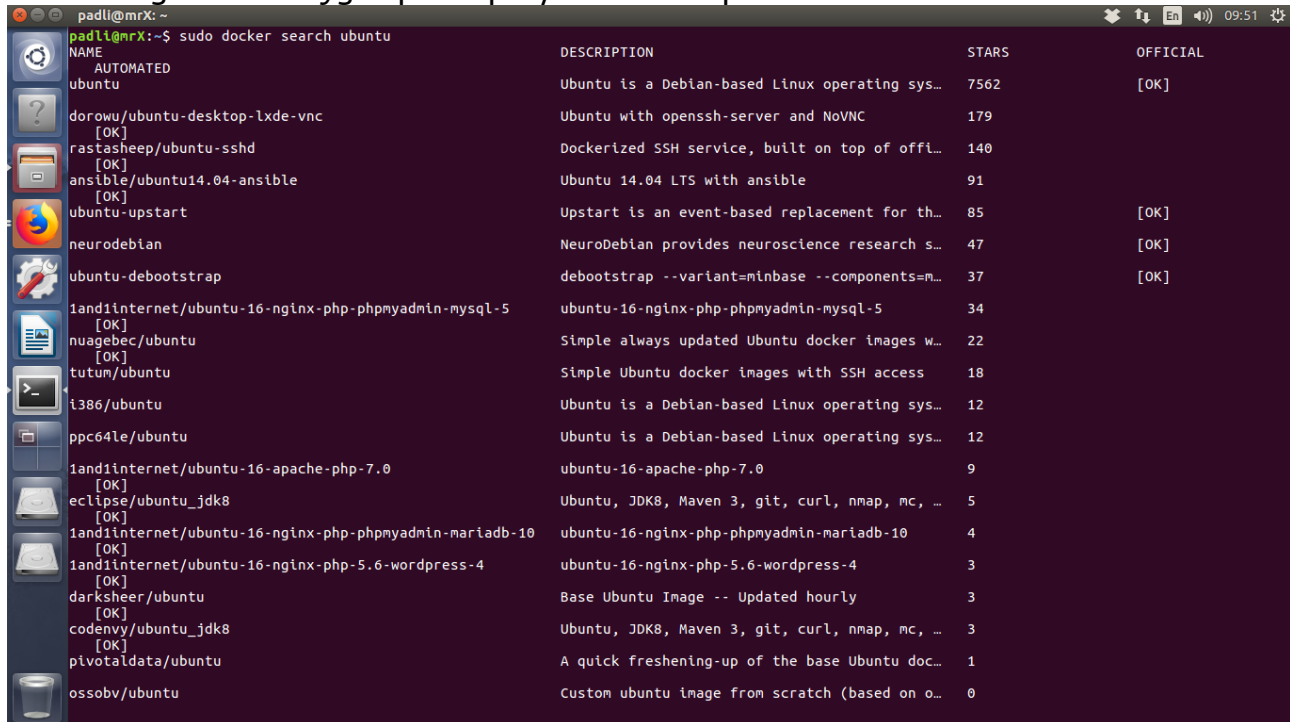
3. cek list docker images

```
padli@mrX:~$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	c9d990395902	2 weeks ago	113MB
hello-world	latest	e38bc07ac18e	2 weeks ago	1.85kB

```
padli@mrX:~$
```

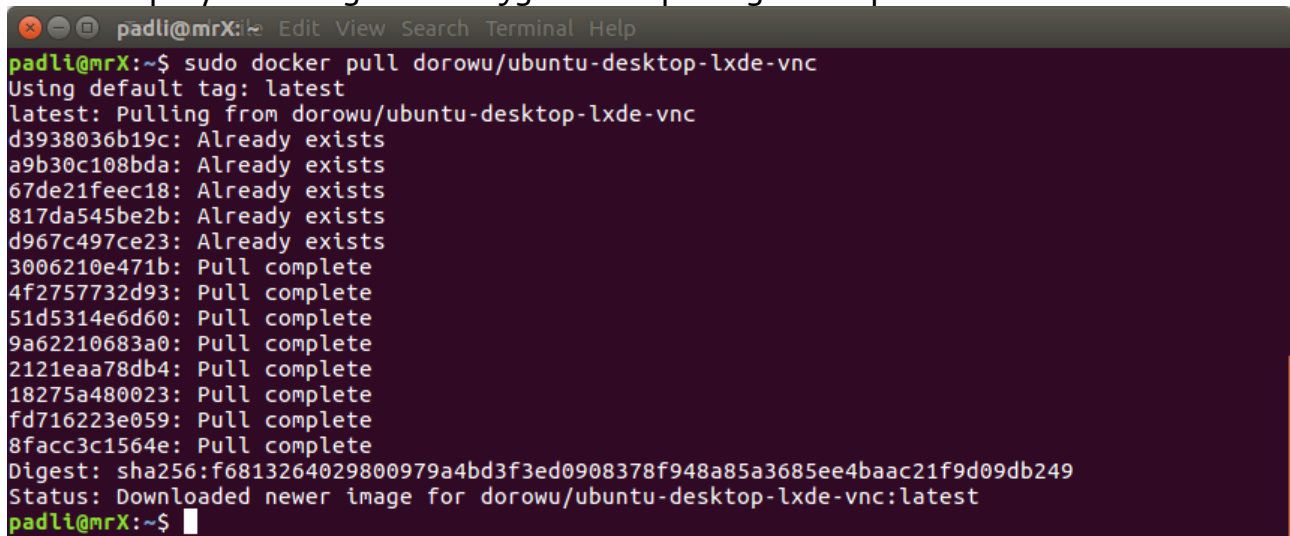
4. cek images ubuntu yg dapat di pull/tarik dari repo docker



```
padli@mrX: ~  
padli@mrX:~$ sudo docker search ubuntu
```

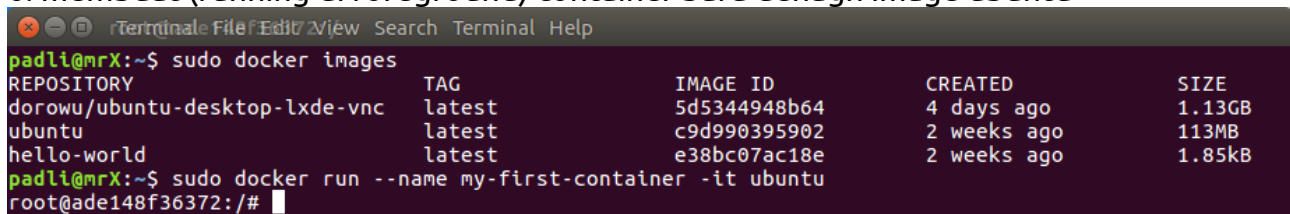
NAME	DESCRIPTION	STARS	OFFICIAL
automated/ubuntu	Ubuntu is a Debian-based Linux operating sys...	7562	[OK]
dorowu/ubuntu-desktop-lxde-vnc	Ubuntu with openssh-server and NoVNC	179	
rastashoop/ubuntu-ssh	Dockerized SSH service, built on top of offl...	140	
ansible/ubuntu14.04-ansible	Ubuntu 14.04 LTS with ansible	91	
ubuntu-upstart	Upstart is an event-based replacement for th...	85	[OK]
neurodebian	NeuroDebian provides neuroscience research s...	47	[OK]
ubuntu-debootstrap	debootstrap --variant=minbase --components=m...	37	[OK]
1andiinternet/ubuntu-16-nginx-php-phpmyadmin-mysql-5	ubuntu-16-nginx-php-phpmyadmin-mysql-5	34	
nuagebec/ubuntu	Simple always updated Ubuntu docker images w...	22	
tutum/ubuntu	Simple Ubuntu docker images with SSH access	18	
i386/ubuntu	Ubuntu is a Debian-based Linux operating sys...	12	
ppc64le/ubuntu	Ubuntu is a Debian-based Linux operating sys...	12	
1andiinternet/ubuntu-16-apache-php-7.0	ubuntu-16-apache-php-7.0	9	
eclipse/ubuntu_jdk8	Ubuntu, JDK8, Maven 3, git, curl, nmap, mc, ...	5	
1andiinternet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10	ubuntu-16-nginx-php-phpmyadmin-mariadb-10	4	
1andiinternet/ubuntu-16-nginx-php-5.6-wordpress-4	ubuntu-16-nginx-php-5.6-wordpress-4	3	
darksheer/ubuntu	Base Ubuntu Image -- Updated hourly	3	
codenvy/ubuntu_jdk8	Ubuntu, JDK8, Maven 3, git, curl, nmap, mc, ...	3	
pivotaldata/ubuntu	A quick freshening-up of the base Ubuntu doc...	1	
ossobv/ubuntu	Custom ubuntu image from scratch (based on o...	0	

5. contoh pull/tarik image ubuntu yg sudah dipasang desktop lxde vnc



```
padli@mrX:~$ sudo docker pull dorowu/ubuntu-desktop-lxde-vnc  
Using default tag: latest  
latest: Pulling from dorowu/ubuntu-desktop-lxde-vnc  
d3938036b19c: Already exists  
a9b30c108bda: Already exists  
67de21feec18: Already exists  
817da545be2b: Already exists  
d967c497ce23: Already exists  
3006210e471b: Pull complete  
4f2757732d93: Pull complete  
51d5314e6d60: Pull complete  
9a62210683a0: Pull complete  
2121eaa78db4: Pull complete  
18275a480023: Pull complete  
fd716223e059: Pull complete  
8facc3c1564e: Pull complete  
Digest: sha256:f6813264029800979a4bd3f3ed0908378f948a85a3685ee4baac21f9d09db249  
Status: Downloaded newer image for dorowu/ubuntu-desktop-lxde-vnc:latest  
padli@mrX:~$
```

6. membuat (running di foreground) container baru denagn image ubuntu

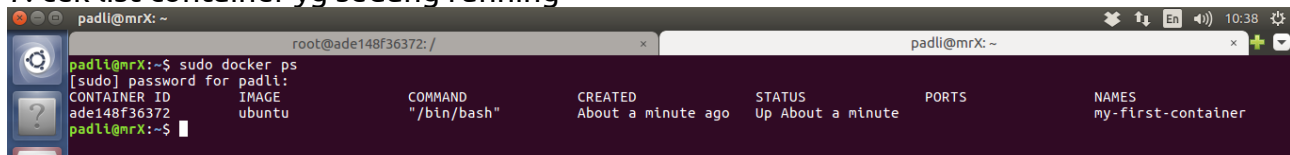


```
padli@mrX:~$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
dorowu/ubuntu-desktop-lxde-vnc	latest	5d5344948b64	4 days ago	1.13GB
ubuntu	latest	c9d990395902	2 weeks ago	113MB
hello-world	latest	e38bc07ac18e	2 weeks ago	1.85kB

```
padli@mrX:~$ sudo docker run --name my-first-container -it ubuntu  
root@ade148f36372:/#
```

7. cek list container yg sedang running



```
padli@mrX:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ade148f36372	ubuntu	"/bin/bash"	About a minute ago	Up About a minute		my-first-container

8. tes update container

```
root@ade148f36372:/# apt-get update
Hit:1 http://archive.ubuntu.com/ubuntu xenial InRelease
Hit:2 http://security.ubuntu.com/ubuntu xenial-security InRelease
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Hit:4 http://archive.ubuntu.com/ubuntu xenial-backports InRelease
Get:5 http://archive.ubuntu.com/ubuntu xenial-updates/universe Sources [254 kB]
Get:6 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [991 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/restricted amd64 Packages [13.1 kB]

Ign:8 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages
Get:9 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [18.5 kB]
70% [Waiting for headers]
```

9. tes install aplikasi di container

```
root@ade148f36372:/# apt-get install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 1 not upgraded.
Need to get 175 kB of archives.
After this operation, 725 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu xenial/main amd64 net-tools amd64 1.60-26ubuntu1 [175 kB]
Fetched 175 kB in 0s (4856 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package net-tools.
(Reading database ... 4768 files and directories currently installed.)
Preparing to unpack ../net-tools_1.60-26ubuntu1_amd64.deb ...
Unpacking net-tools (1.60-26ubuntu1) ...
Setting up net-tools (1.60-26ubuntu1) ...
root@ade148f36372:/#
```

10. tes cek config network di container

```
root@ade148f36372:/# ifconfig
eth0      Link encap:Ethernet  HWaddr 02:42:ac:11:00:02
          inet addr:172.17.0.2  Bcast:172.17.255.255  Mask:255.255.0.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:6640 errors:0 dropped:0 overruns:0 frame:0
          TX packets:4454 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:27119275 (27.1 MB)  TX bytes:307327 (307.3 KB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

root@ade148f36372:/#
```

11. tes cek config network di host

```
padli@mrX: ~  
root@ade148f36372: /  
padli@mrX:~$ ifconfig  
docker0  Link encap:Ethernet  HWaddr 02:42:1a:41:9a:e3  
          inet addr:172.17.0.1  Bcast:172.17.255.255  Mask:255.255.0.0  
          inet6 addr: fe80::42:1aff:fe41:9ae3/64  Scope:Link  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:4455 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:6658 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:0  
          RX bytes:245023 (245.0 KB)  TX bytes:27121888 (27.1 MB)  
  
enp2s0    Link encap:Ethernet  HWaddr d8:cb:8a:cb:53:ef  
          inet addr:192.168.1.250  Bcast:192.168.1.255  Mask:255.255.255.0  
          inet6 addr: fe80::dacb:8aff:feeb:53ef/64  Scope:Link  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:1370172 errors:0 dropped:1979 overruns:0 frame:0  
          TX packets:565994 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:1000  
          RX bytes:1487703737 (1.4 GB)  TX bytes:78916727 (78.9 MB)  
  
lo        Link encap:Local Loopback  
          inet addr:127.0.0.1  Mask:255.0.0.0  
          inet6 addr: ::1/128  Scope:Host  
          UP LOOPBACK RUNNING  MTU:65536  Metric:1  
          RX packets:55226 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:55226 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:1  
          RX bytes:14872659 (14.8 MB)  TX bytes:14872659 (14.8 MB)  
  
veth64f4262 Link encap:Ethernet  HWaddr 5e:db:6f:7b:79:da  
          inet6 addr: fe80::5cdb:6fff:fe7b:79da/64  Scope:Link  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:4455 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:6643 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:0  
          RX bytes:307393 (307.3 KB)  TX bytes:27119800 (27.1 MB)  
  
padli@mrX:~$
```

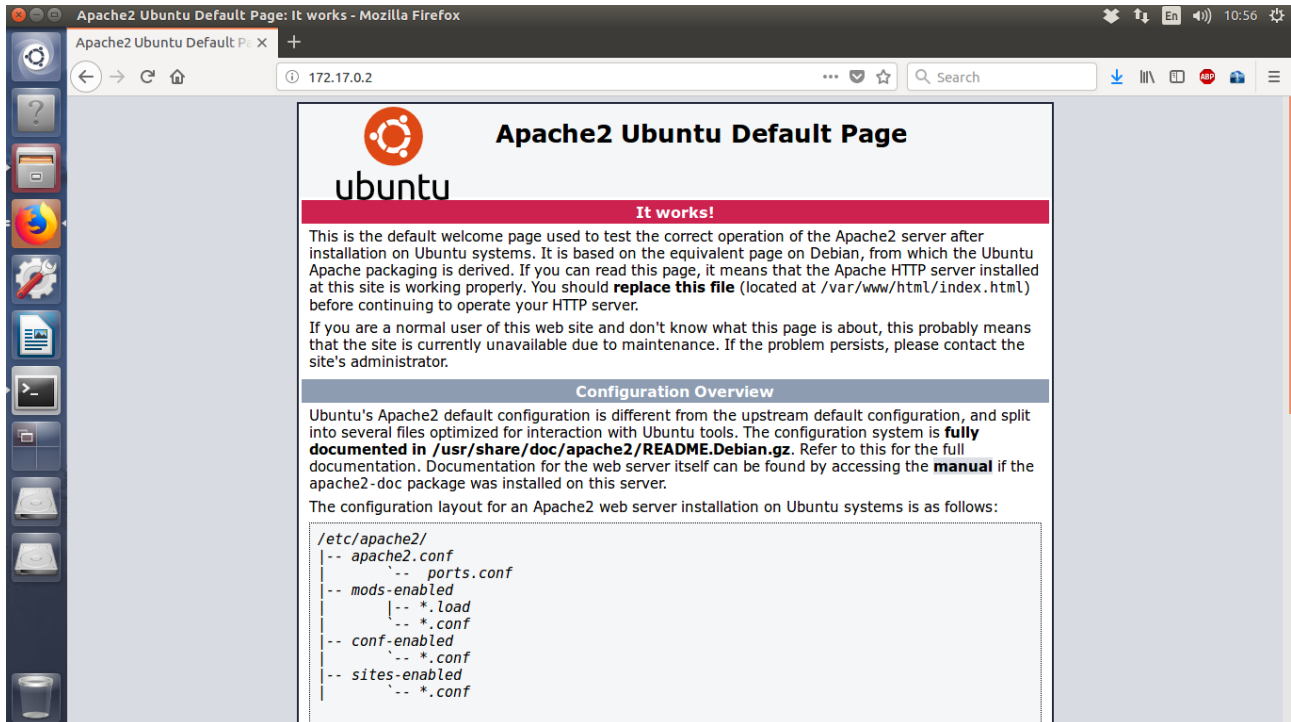
12. install web server apache2 di container

```
root@ade148f36372: /  
padli@mrX: ~  
root@ade148f36372:/# apt-get install apache2  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  apache2-bin apache2-data apache2-utils file ifupdown iproute2 isc-dhcp-client isc-dhcp-common libapr1 libaprutil1 libaprutil1-dbd-sqlite3  
  libaprutil1-ldap libasn1-8-heimdal libatm1 libdns-export162 libexpat1 libffi6 libgdbm3 libgmp10 libgnutls30 libgssapi3-heimdal  
  libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal libhogweed4 libhx509-5-heimdal libicu55 libidn11 libisc-export160  
  libk5-26-heimdal libldap-2.4-2 liblua5.1-0 libmagic1 libmnl0 libnettle6 libp11-kit0 libperl5.22 libroken18-heimdal libsasl2-2  
  libsasl2-modules libsasl2-modules-db libsasl2-modules-gssapi-mit libsasl2-modules-gssapi-heimdal libss1.0 libtasn1-6 libwind0-heimdal libxml2 libxtables11 mime-support netbase openssl  
  perl perl-base perl-modules-5.22 rename sgml-base ssl-cert xml-core  
Suggested packages:  
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom ufw ppp rdnsd iproute2-doc resolvconf avahi-autoipd  
  isc-dhcp-client-dnsmd apparmor gnutls-bin libsasl2-modules-otp libsasl2-modules-ldap libsasl2-modules-sql libsasl2-modules-gssapi-mit  
  | libsasl2-modules-gssapi-heimdal ca-certificates perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make sgml-base-doc  
  openssl-blacklist debhelper  
The following NEW packages will be installed:  
  apache2 apache2-bin apache2-data apache2-utils file ifupdown iproute2 isc-dhcp-client isc-dhcp-common libapr1 libaprutil1  
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libasn1-8-heimdal libatm1 libdns-export162 libexpat1 libffi6 libgdbm3 libgmp10 libgnutls30  
  libgssapi3-heimdal libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal libhogweed4 libhx509-5-heimdal libicu55 libidn11  
  libisc-export160 libk5-26-heimdal libldap-2.4-2 liblua5.1-0 libmagic1 libmnl0 libnettle6 libp11-kit0 libperl5.22 libroken18-heimdal  
  libsasl2-2 libsasl2-modules libsasl2-modules-db libsasl2-modules-gssapi-mit libsasl2-modules-gssapi-heimdal libss1.0 libtasn1-6 libwind0-heimdal libxml2 libxtables11 mime-support  
  netbase openssl perl perl-modules-5.22 rename sgml-base ssl-cert xml-core  
The following packages will be upgraded:  
  perl-base  
1 upgraded, 57 newly installed, 0 to remove and 0 not upgraded.  
Need to get 24.0 MB of archives.  
After this operation, 102 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y
```

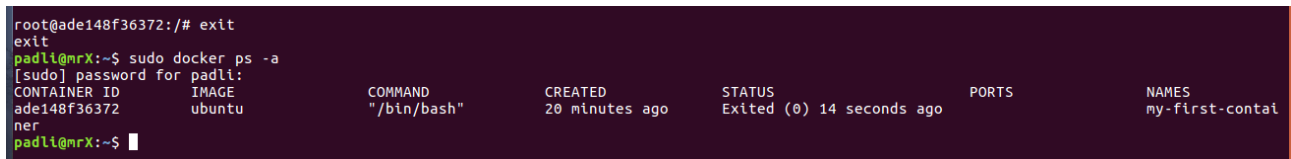
13. start service apache2

```
root@ade148f36372: /w Search Terminal Tabs Help  
root@ade148f36372: /  
padli@mrX: ~  
root@ade148f36372:/# /etc/init.d/apache  
apache-htcacheclean apache2  
root@ade148f36372:/# /etc/init.d/apache2 start  
* Starting Apache httpd web server apache2  
AH00558: apache2: Could not reliably determine the server's fully qualified domain name,  
using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message  
*  
root@ade148f36372:/# /etc/init.d/apache2 status  
* apache2 is running  
root@ade148f36372:/#
```

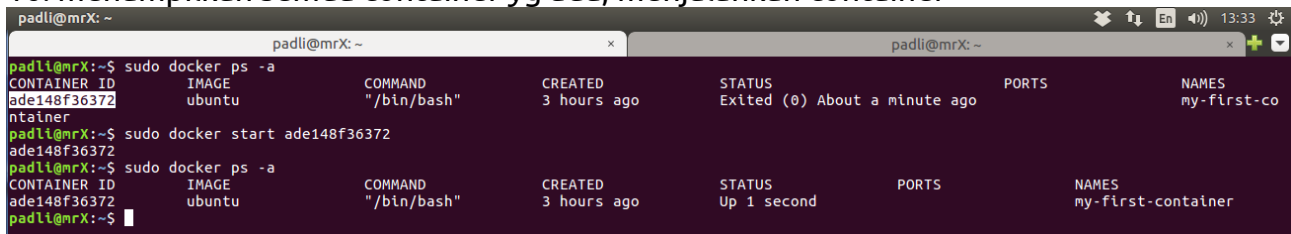

14. cek lewat browser



15. keluar dari container



16. menampilkan semua container yg ada, menjalankan container



17. menampilkan detail info container yg sedang berjalan

```
padli@mrX: ~  
padli@mrX:~$ sudo docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Up About a minute                my-first-container  
padli@mrX:~$ sudo docker inspect ade148f36372  
[  
  {  
    "Id": "ade148f36372ecfab9b507fb8f64ed39809f4a1920e90f8bd8cccc13a65499f2",  
    "Created": "2018-04-27T03:36:30.73922906Z",  
    "Path": "/bin/bash",  
    "Args": [],  
    "State": {  
      "Status": "running",  
      "Running": true,  
      "Paused": false,  
      "Restarting": false,  
      "OOMKilled": false,  
      "Dead": false,  
      "Pid": 20305,  
      "ExitCode": 0,  
      "Error": "",  
      "StartedAt": "2018-04-27T06:54:05.789806265Z",  
      "FinishedAt": "2018-04-27T06:46:39.414071122Z"  
    },  
    "Image": "sha256:c9d990395902a9e219684af847a63d793ccf72cf2aadeece1b576566c5662400",  
    "ResolvConfPath": "/var/lib/docker/containers/ade148f36372ecfab9b507fb8f64ed39809f4a1920e90f8bd8cccc13a65499f2/resolv.conf",  
    "HostnamePath": "/var/lib/docker/containers/ade148f36372ecfab9b507fb8f64ed39809f4a1920e90f8bd8cccc13a65499f2/hostname",  
    "LogPath": "/var/lib/docker/containers/ade148f36372ecfab9b507fb8f64ed39809f4a1920e90f8bd8cccc13a65499f2/hosts",  
    "HostPath": "/var/lib/docker/containers/ade148f36372ecfab9b507fb8f64ed39809f4a1920e90f8bd8cccc13a65499f2/ade148f36372ecfab9b507fb8f64ed39809f4a1920e90f8bd8cccc13a65499f2-json.log",  
    "Name": "/my-first-container",  
    "RestartCount": 0,  
    "Driver": "overlay2",  
    "Platform": "linux",  
    "MountLabel": "",  
    "ProcessLabel": "",  
    "AppArmorProfile": "docker-default",  
    "ExecIDs": null,  
    "HostConfig": {  
      "Binds": null,  
      "ContainerIDFile": "",  
      "LogConfig": {  
        "Type": "json-file",  
        "Config": {}  
      },  
      "LoggingDriver": "json-file",  
      "NetworkMode": "bridge",  
      "PortBindings": {},  
      "RestartPolicy": {  
        "Name": "no",  
        "MaximumRetryCount": 0  
      },  
      "SecurityOpt": null,  
      "StorageOpt": null,  
      "VolumeDriver": "local",  
      "Volumes": null  
    },  
    "NetworkSettings": {  
      "Bridge": "br-bridge",  
      "SandBox": "private",  
      "HairpinMode": false,  
      "LinkLocalIPv6Address": "",  
      "LinkLocalIPv6Prefix": "",  
      "MacAddress": "92:84:8a:7a:63:d7",  
      "NetworkInterfaces": {  
        "eth0": {  
          "mac": "92:84:8a:7a:63:d7",  
          "name": "eth0",  
          "netnsid": "1",  
          "parent": "veth-pair",  
          "state": "up",  
          "type": "veth-pair"  
        },  
        "lo": {  
          "mac": "02:00:00:00:00:00",  
          "name": "lo",  
          "netnsid": "1",  
          "parent": "veth-pair",  
          "state": "up",  
          "type": "veth-pair"  
        }  
      },  
      "Ports": {},  
      "SandboxKey": "/dev/net/tun",  
      "UseDefaultNetworkSettings": false,  
      "UseExternalInterfaces": false,  
      "VolumeLabels": {}  
    }  
  }  
]
```

18. memberhentikan container yg sedang berjalan

```
padli@mrX: ~  
padli@mrX:~$ sudo docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Up 8 minutes                my-first-container  
padli@mrX:~$ sudo docker stop ade148f36372  
ade148f36372  
padli@mrX:~$ sudo docker ps -a  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Exited (0) 3 seconds ago                my-first-contain  
padli@mrX:~$
```

19. menjalankan perintah pada container yg sedang berjalan di background

```
padli@mrX: ~  
padli@mrX:~$ sudo docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Up 6 minutes                my-first-container  
padli@mrX:~$ sudo docker exec ade148f36372 ifconfig  
eth0      Link encap:Ethernet  HWaddr 02:42:ac:11:00:02  
          inet addr:172.17.0.2  Bcast:172.17.255.255  Mask:255.255.0.0  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:44  errors:0  dropped:0  overruns:0  frame:0  
          TX packets:0  errors:0  dropped:0  overruns:0  carrier:0  
          collisions:0  txqueuelen:0  
          RX bytes:7759 (7.7 KB)  TX bytes:0 (0.0 B)  
  
lo        Link encap:Local Loopback  
          inet addr:127.0.0.1  Mask:255.0.0.0  
          UP LOOPBACK RUNNING  MTU:65536  Metric:1  
          RX packets:0  errors:0  dropped:0  overruns:0  frame:0  
          TX packets:0  errors:0  dropped:0  overruns:0  carrier:0  
          collisions:0  txqueuelen:1  
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)  
  
padli@mrX:~$ sudo docker exec ade148f36372 apt-get update  
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [107 kB]  
Ign:2 http://archive.ubuntu.com/ubuntu xenial InRelease  
Ign:3 http://archive.ubuntu.com/ubuntu xenial-updates InRelease  
Get:4 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]  
Get:5 http://archive.ubuntu.com/ubuntu xenial Release [246 kB]  
Get:6 http://archive.ubuntu.com/ubuntu xenial-updates Release [108 kB]  
Get:7 http://archive.ubuntu.com/ubuntu xenial Release.gpg [933 B]  
Get:8 http://archive.ubuntu.com/ubuntu xenial-updates Release.gpg [916 B]  
Fetched 570 kB in 2min 10s (4373 B/s)  
Reading package lists...
```

20. membuat image dari container

```
padli@mrX: ~  
padli@mrX:~$ sudo docker ps -a  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Exited (0) 48 seconds ago              my-first-contain  
ner  
padli@mrX:~$ sudo docker commit -m "add-apache2-ssh-net-tools" -a "julian23" ade148f36372 julian23/ubuntu-apache2-ssh-net-tools  
sha256:7a60b267f465025b674b525fd008087671b7a7bb7f2dd93e93d32d8d48e7a35d  
padli@mrX:~$ sudo docker images  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
julian23/ubuntu-apache2-ssh-net-tools   latest             7a60b267f465       9 seconds ago      301MB  
dorowu/ubuntu-desktop-lxde-vnc         latest            5d5344948b64       4 days ago         1.13GB  
ubuntu                               latest            c9d990395902       2 weeks ago        113MB  
hello-world                          latest            e38bc07ac18e       2 weeks ago        1.85kB  
padli@mrX:~$
```

21. hapus container

```
padli@mrX: ~  
padli@mrX:~$ sudo docker ps -a  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
d0f32ec9c822        ubuntu             "/bin/bash"        8 seconds ago      Exited (0) 4 seconds ago              my-2nd-cont  
ainer  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Exited (0) About a minute ago              my-first-co  
ntainer  
padli@mrX:~$ sudo docker rm d0f32ec9c822  
d0f32ec9c822  
padli@mrX:~$ sudo docker ps -a  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
ade148f36372        ubuntu             "/bin/bash"        3 hours ago        Exited (0) 2 minutes ago              my-first-contain  
er  
padli@mrX:~$
```

22. hapus image

```
padli@mrX: ~  
padli@mrX:~$ sudo docker images  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
julian23/ubuntu-apache2-ssh-net-tools   latest             7a60b267f465       14 minutes ago      301MB  
dorowu/ubuntu-desktop-lxde-vnc         latest            5d5344948b64       4 days ago         1.13GB  
ubuntu                               latest            c9d990395902       2 weeks ago        113MB  
hello-world                          latest            e38bc07ac18e       2 weeks ago        1.85kB  
padli@mrX:~$ sudo docker rmi dorowu/ubuntu-desktop-lxde-vnc  
Untagged: dorowu/ubuntu-desktop-lxde-vnc:latest  
Untagged: dorowu/ubuntu-desktop-lxde-vnc@sha256:f6813264029800979a4bd3f3ed0908378f948a85a3685ee4baac21f9d09db249  
Deleted: sha256:5d5344948b64b93872e700c9a9dde1a717f863b1f5d0a285fbb259aa7bcc04a0  
Deleted: sha256:4d93b1940cc59ce086dad453ca6e22199746eae28b107a12b7086e87f0d0c910  
Deleted: sha256:09c7ec6372f1f22a6b07170a6cba9807d6872c7e7c53892f88eff5e2a267f03d  
Deleted: sha256:c90a3227f34b6d3744798ff00258ebd386461f02349742acd3b30f03eab68f56  
Deleted: sha256:b18bce0bd9ee48b7dff6424a46e49a4442f0300d8209469849e6bbd702cc0e32  
Deleted: sha256:3f82a2448923af52bbebd0b7e3ddb1fed82d78e4e5475994ec2a0231c98f1e08  
Deleted: sha256:9cae16ecd9aff8b1d2c9b363438d79ce057ef6228574792e6f4fc7981c160ab2  
Deleted: sha256:e17f3448be96e7587d4aa0c243b4b873870d4065bb8722eaf87b1e68d58e16  
Deleted: sha256:37e1e573bd02dea0940595e4b5e16ce8ab96bf7af0745098d92f57c74d91963e  
padli@mrX:~$ sudo docker images  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
julian23/ubuntu-apache2-ssh-net-tools   latest             7a60b267f465       15 minutes ago      301MB  
ubuntu                               latest            c9d990395902       2 weeks ago        113MB  
hello-world                          latest            e38bc07ac18e       2 weeks ago        1.85kB  
padli@mrX:~$
```

23. push image ke docker hub (daftar dulu account ke docker hub)

```
padli@mrX: ~  
padli@mrX:~$ sudo docker images  
[sudo] password for padli:  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
julian23/ubuntu-apache2-ssh-net-tools   latest             7a60b267f465       2 hours ago        301MB  
ubuntu                               latest            c9d990395902       2 weeks ago        113MB  
hello-world                          latest            e38bc07ac18e       2 weeks ago        1.85kB  
padli@mrX:~$ sudo docker login -u julian23  
Password:  
Login Succeeded  
padli@mrX:~$ sudo docker push julian23/ubuntu-apache2-ssh-net-tools  
The push refers to repository [docker.io/julian23/ubuntu-apache2-ssh-net-tools]  
86cb3a6c342f: Pushing [=====] 152.8MB/188.3MB  
a8de0e025d94: Mounted from julian23/ubuntu-apache23  
a5e66470b281: Mounted from julian23/ubuntu-apache23  
ac7299292f8b: Mounted from julian23/ubuntu-apache23  
e1a9a6284d0d: Mounted from julian23/ubuntu-apache23  
fccbfa2912f0: Mounted from julian23/ubuntu-apache23  
padli@mrX:~$
```


24. cek image

The screenshot shows the Docker Hub interface. The browser title is 'Docker Hub - Mozilla Firefox' and the address bar shows 'https://hub.docker.com'. The user 'julian23' is logged in. The 'Repositories' tab is selected, showing a list of repositories. The first repository is 'julian23/ubuntu-apache23' (public) with 0 stars and 1 pull. The second repository is 'julian23/ubuntu-apache2-ssh-net-tools' (public) with 0 stars and 1 pull. A 'Create Repository' button is in the top right.

Repository	Stars	Pulls	Details
julian23/ubuntu-apache23 public	0	1	> DETAILS
julian23/ubuntu-apache2-ssh-net-tools public	0	1	> DETAILS

dok 02/05/2018 padliyulian@ymail.com