Pulling an image

\$ docker images

cd@DESKTOP-\	/CNQ3D1:~\$	docker images		
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	ff0fea8310f3	7 days ago	72.8MB
ubuntu	16.04	b6f507652425	6 months ago	135MB
ubuntu	16.10	7d3f705d307c	4 years ago	107MB
IODECUTOR I				

\$ docker search < keyword>

cd@DESKTOP-VCNQ3D1:~\$ docker sea	anch uhuntu			
NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
ubuntu	Ubuntu is a Debian-based Linux operating sys	13918	[OK]	NOTOFILLED
websphere-liberty	WebSphere Liberty multi-architecture images	283	[OK]	
ubuntu-upstart	DEPRECATED, as is Upstart (find other proces	112	[OK]	
neurodebian	NeuroDebian provides neuroscience research s	88	[OK]	
open-liberty	Open Liberty multi-architecture images based	51	[OK]	
ubuntu-debootstrap	DEPRECATED; use "ubuntu" instead	45	[ΟΚ]	
ubuntu/nginx	Nginx, a high-performance reverse proxy & we	37		
ubuntu/mysql	MySQL open source fast, stable, multi-thread	28		
ubuntu/apache2	Apache, a secure & extensible open-source HT	26		
ubuntu/prometheus	Prometheus is a systems and service monitori	22		
kasmweb/ubuntu-bionic-desktop	Ubuntu productivity desktop for Kasm Workspa	21		
ubuntu/postgres	PostgreSQL is an open source object-relation	15		
ubuntu/squid	Squid is a caching proxy for the Web. Long-t	15		
ubuntu/bind9	BIND 9 is a very flexible, full-featured DNS	12		
ubuntu/redis	Redis, an open source key-value store. Long	9		
ubuntu/grafana	Grafana, a feature rich metrics dashboard &	5		
ubuntu/prometheus-alertmanager	Alertmanager handles client alerts from Prom	5		
ubuntu/memcached	Memcached, in-memory keyvalue store for smal	4		
ubuntu/telegraf	Telegraf collects, processes, aggregates & w	3		
circleci/ubuntu-server	This image is for internal use	3		
ubuntu/cortex	Cortex provides storage for Prometheus. Long	2		
ubuntu/cassandra	Cassandra, an open source NoSQL distributed	1		
bitnami/ubuntu-base-buildpack	Ubuntu base compilation image	0		[OK]
snyk/ubuntu	A base ubuntu image for all broker clients t	0		
rancher/ubuntuconsole	0			
cd@DESKTOP-VCNQ3D1:~\$ docker pul	II ubuntu:16.04			

\$ docker pull Ubuntu:16.04

```
cd@DESKTOP-VCNQ3D1:~$ docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
Digest: sha256:0f71fa8d4d2d4292c3c617fda2b36f6dabe5c8b6e34c3dc5b0d17d4e704bd39c
Status: Image is up to date for ubuntu:16.04
docker.io/library/ubuntu:16.04
cd@DESKTOP-VCNQ3D1:~$ docker pull ubuntu:latest
latest: Pulling from library/ubuntu
Digest: sha256:bea6d19168bbfd6af8d77c2cc3c572114eb5d113e6f422573c93cb605a0e2ffb
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
cd@DESKTOP-VCNQ3D1:~$ docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Image is up to date for ubuntu:16.10
docker.io/library/ubuntu:16.10
```

\$ docker rmi <IMAGE ID>

```
ESKTOP-VCNQ3D1:~$ docker rmi ubuntu:16.10
Jntagged: ubuntu:16.10
Jntagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
)eleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
eleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c/
eleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
eleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
)eleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e
 t@DESKTOP-VCNQ3D1:~$ docker rmi ubuntu:16.04
Jntagged: ubuntu:16.04
Jntagged: ubuntu@sha256:0f71fa8d4d2d4292c3c617fda2b36f6dabe5c8b6e34c3dc5b0d17d4e704bd39c
eleted: sha256:b6f50765242581c887ff1acc2511fa2d885c52d8fb3a<u>c8c4bba131fd86567f2e</u>
eleted: sha256:0214f4b057d78b44fd12702828152f67c0ce115f9346acc63acdf997cab7e7c8
eleted: sha256:1b9d0485372c5562fa614d5b35766f6c442539bcee9825a6e90d1158c3299a61.
eleted: sha256:3c0f34be6eb98057c607b9080237cce0be0b86f52d51ba620dc018a3d421baea
eleted: sha256:be96a3f634de79f523f07c7e4e0216c28af45eb5776e7a6238a2392f71e01069
 d@DESKTOP-VCNQ3D1:~$ docker rmi ubuntu:latest
```

\$ docker images

```
cd@DESKTOP-VCNQ3D1:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu 16.10 7d3f705d307c 4 years ago 107MB
```

Running our container

\$ docker run Ubuntu:16.04 /bin/echo 'Hello World!'

```
cd@DESKTOP-VCNQ3D1:~$ docker run ubuntu:16.10 /bin/echo 'Hello world!'
Hello world!
```

\$ docker ps

```
:d@DESKTOP-VCNQ3D1:~$ docker ps
IONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
:d@DESKTOP-VCNQ3D1:~$ docker ps -a
:d@DESKTOP-VCNQ3D1:~$ docker ps -a
IONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
574db01e3227 ubuntu:16.10 "/bin/echo 'Hello wo." About a minute ago Exited (0) About a minute ago heuristic_meninsky
```

\$ docker run –it Ubuntu:16.04 /bin/bash

```
cd@DESKTOP-VCNQ3D1:~$ docker run -it ubuntu:16.04 /bin/bash
Unable to find image 'ubuntu:16.04' locally
^[[A16.04: Pulling from library/ubuntu
58690f9b18fc: Pull complete
b51569e7c507: Pull complete
da8ef40b9eca: Pull complete
fb15d46c38dc: Pull complete
Digest: sha256:0f71fa8d4d2d4292c3c617fda2b36f6dabe5c8b6e34c3dc5b0d17d4e704bd39c
Status: Downloaded newer image for ubuntu:16.04
root@f8e8526b0ef4:/# pwd
/
root@f8e8526b0ef4:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@f8e8526b0ef4:/# exit
exit
cd@DESKTOP-VCNQ3D1:~$ docker run -d ubuntu:16.04 /bin/sleep 3600
eece3d3fdaabc30af7c48daa0197cd89924f4d61cd88d3aca3a7da58f32bc160
```

\$ docker exec –it be7 /bin/bash

```
cd@DESKTOP-VCNQ3D1:~$ docker exec -it eece3d3fdaab /bin/bash
root@eece3d3fdaab:/# ps aux
USER
          PID %CPU %MEM
                          VSZ
                                RSS TTY
                                            STAT START
                                                         TIME COMMAND
root
            1 0.0 0.0 4376
                               668 ?
                                            Ss 10:02
                                                         0:00 /bin/sleep 3600
            8 0.2 0.0 18240 3304 pts/0
                                            Ss
                                                 10:05
                                                         0:00 /bin/bash
root
           19 0.0 0.0 34424 2860 pts/0
                                            R+
                                                 10:05
                                                         0:00 ps aux
root
root@eece3d3fdaab:/# exit
```

Removing containers

\$ docker stop be73 and docker rm < CONTAINER ID>

```
Cd@DESKTOP-VCNQ3D1:~$ docker stop eece3d3fdaab

cd@DESKTOP-VCNQ3D1:~$ docker ps -a

CONTAINER ID IMAGE COMMAND

CONTAINER ID IMAGE COMMAND

CREATED STATUS

PORTS NAMES

eece3d3fdaab ubuntu:16.04 "/bin/sleep 3600" 5 minutes ago Exited (137) 10 seconds ago exciting_margulis

f8e8526b0ef4 ubuntu:16.04 "/bin/bash" 7 minutes ago Exited (0) 6 minutes ago serene_burnell

674db01e3227 ubuntu:16.10 "/bin/echo 'Hello wo..." 12 minutes ago Exited (0) 12 minutes ago

cd@DESKTOP-VCNQ3D1:~$ docker rm eece

eece
```

\$ docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'

```
cd@DESKTOP-VCNQ3D1:~$ docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
Hello and goodbye!
cd@DESKTOP-VCNQ3D1:~$
```