

## Pulling an image

yolsuh@lenovo: ~

```
yolsuh@lenovo:~$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
suhrab               latest          f06eadf1e89b   2 weeks ago    168MB
ubuntu               latest          2b4cba85892a   3 weeks ago    72.8MB
docker/getting-started latest          bd9a9f733898   6 weeks ago    28.8MB
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker search ubuntu
NAME                DESCRIPTION                                     STARS     OFFICIAL   AUTOMATED
ubuntu              Ubuntu is a Debian-based Linux operating sys... 13917     [OK]
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        [OK]
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-relatio... 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
snky/ubuntu         A base ubuntu image for all broker clients t... 0
rancher/ubuntuconsole
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker pull ubuntu:16.04
16.04: 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
docker.io/library/ubuntu:16.04
yolsuh@lenovo:~$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
suhrab               latest          f06eadf1e89b   2 weeks ago    168MB
ubuntu               latest          2b4cba85892a   3 weeks ago    72.8MB
docker/getting-started latest          bd9a9f733898   6 weeks ago    28.8MB
ubuntu               16.04          b6f507652425   6 months ago    135MB
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10
yolsuh@lenovo:~$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
suhrab	latest	f06eadf1e89b	2 weeks ago	168MB
ubuntu	latest	2b4cba85892a	3 weeks ago	72.8MB
docker/getting-started	latest	bd9a9f733898	6 weeks ago	28.8MB
ubuntu	16.04	b6f507652425	6 months ago	135MB
ubuntu	16.10	7d3f705d307c	4 years ago	107MB

```
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```
yolsuh@lenovo:~$ docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e
yolsuh@lenovo:~$ docker images
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REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
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ubuntu	16.04	b6f507652425	6 months ago	135MB

```
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```

## Running our container

```
yolsuh@lenovo: ~
yolsuh@lenovo:~$ docker run ubuntu:16.04 /bin/echo 'Hello Suhrab'
Hello Suhrab
yolsuh@lenovo:~$
```

```
yolsuh@lenovo: ~
yolsuh@lenovo:~$ docker run ubuntu:16.04 /bin/echo 'Hello Suhrab'
Hello Suhrab
yolsuh@lenovo:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
35cc492a5b75	ubuntu:16.04	"/bin/echo 'Hello Su..."	2 minutes ago	Exited (0)		elastic_bartik
357915e66e6c	ubuntu	"bash"	2 weeks ago	Exited (0)		friendly_cerf
2b1136999d40	ubuntu	"bash"	2 weeks ago	Exited (0)		exciting_ramanujan
ef10ceca9a09	suhrab	"docker-entrypoint.s..."	2 weeks ago	Exited (0)		romantic_shirley
5401d6509556	docker/getting-started	"/docker-entrypoint..."	2 weeks ago	Exited (0)		awesome_fermat

```
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker run ubuntu:16.04 /bin/bash
yolsuh@lenovo:~$
yolsuh@lenovo:~$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
37f4ade21b36       ubuntu:16.04       "/bin/bash"        18 seconds ago     Exited (0)          5 minutes ago      5 minutes ago      5 minutes ago
5         ubuntu:16.04       "/bin/echo 'Hello Su..." 5 minutes ago     Exited (0)          5 minutes ago      5 minutes ago
357915e66e6c       ubuntu             "bash"             2 weeks ago        Exited (0)          2 weeks ago        2 weeks ago
2b1136999d40       ubuntu             "bash"             2 weeks ago        Exited (0)          2 weeks ago        2 weeks ago
ef10ceca9a09       suhrab             "docker-entrypoint.s..." 2 weeks ago        Exited (0)          2 weeks ago        2 weeks ago
5401d6509556       docker/getting-started "/docker-entrypoint..." 2 weeks ago        Exited (0)          2 weeks ago        2 weeks ago
yolsuh@lenovo:~$ docker run -it ubuntu:16.04 /bin/bash
root@2521ac508c14:/#
root@2521ac508c14:/# pwd
/
root@2521ac508c14:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sy
root@2521ac508c14:/# exit
exit
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker run -d ubuntu:16.04 /bin/sleep 3600
8430019b13cc55b00f233bf12bd6dc99c7f27d93cf93b041536a57ac89a99b53
yolsuh@lenovo:~$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
8430019b13cc       ubuntu:16.04       "/bin/sleep 3600"   9 seconds ago       Up 6 seconds                modest_feistel
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker exec -it 84300 /bin/bash
root@8430019b13cc:/# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1   0.0   0.0   4376   676 ?        Ss   09:46   0:00 /bin/sleep 3600
root         8   0.8   0.1  18244  3260 pts/0    Ss   09:49   0:00 /bin/bash
root        19   0.0   0.0   34424  2924 pts/0    R+   09:49   0:00 ps aux
root@8430019b13cc:/# exit
exit
yolsuh@lenovo:~$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
8430019b13cc       ubuntu:16.04       "/bin/sleep 3600"   3 minutes ago       Up 3 minutes                mode
yolsuh@lenovo:~$
```

```
yolsuh@lenovo:~$ docker stop 8430
8430
yolsuh@lenovo:~$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
8430019b13cc       ubuntu:16.04       "/bin/sleep 3600"   5 minutes ago       Exited (137) 9 seconds ago      modest_feistel
2521ac508c14       ubuntu:16.04       "/bin/bash"         8 minutes ago       Exited (0) 7 minutes ago      optimistic_sht
37f4ade21b36       ubuntu:16.04       "/bin/bash"         9 minutes ago       Exited (0) 9 minutes ago      flamboyant_wil
35cc492a5b75       ubuntu:16.04       "/bin/echo 'Hello Su..." 15 minutes ago     Exited (0) 14 minutes ago     elastic_bartik
357915e66e6c       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        friendly_cerf
357915e66e6c       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        exciting_raman
2b1136999d40       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        romantic_shirle
ef10ceca9a09       suhrab             "docker-entrypoint.s..." 2 weeks ago        Exited (0) 2 weeks ago        awesome_fermat
5401d6509556       docker/getting-started "/docker-entrypoint..." 2 weeks ago        Exited (0) 2 weeks ago
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```

```
yolsuh@lenovo:~$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
8430019b13cc       ubuntu:16.04       "/bin/sleep 3600"   5 minutes ago       Exited (137) 9 seconds ago      modest_feistel
2521ac508c14       ubuntu:16.04       "/bin/bash"         8 minutes ago       Exited (0) 7 minutes ago      optimistic_sht
37f4ade21b36       ubuntu:16.04       "/bin/bash"         9 minutes ago       Exited (0) 9 minutes ago      flamboyant_wil
35cc492a5b75       ubuntu:16.04       "/bin/echo 'Hello Su..." 15 minutes ago     Exited (0) 14 minutes ago     elastic_bartik
357915e66e6c       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        friendly_cerf
357915e66e6c       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        exciting_raman
2b1136999d40       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        romantic_shirle
ef10ceca9a09       suhrab             "docker-entrypoint.s..." 2 weeks ago        Exited (0) 2 weeks ago        awesome_fermat
5401d6509556       docker/getting-started "/docker-entrypoint..." 2 weeks ago        Exited (0) 2 weeks ago
yolsuh@lenovo:~$ docker rm 84300
84300
yolsuh@lenovo:~$ docker run --rm ubuntu:16.04 /bin/echo 'Hello and ByeBye!'
Hello and ByeBye!
yolsuh@lenovo:~$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
2521ac508c14       ubuntu:16.04       "/bin/bash"         10 minutes ago      Exited (0) 10 minutes ago      optimistic_sht
37f4ade21b36       ubuntu:16.04       "/bin/bash"         12 minutes ago      Exited (0) 12 minutes ago      flamboyant_wil
35cc492a5b75       ubuntu:16.04       "/bin/echo 'Hello Su..." 17 minutes ago      Exited (0) 17 minutes ago      elastic_bartik
357915e66e6c       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        friendly_cerf
357915e66e6c       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        exciting_raman
2b1136999d40       ubuntu             "bash"              2 weeks ago         Exited (0) 2 weeks ago        romantic_shirle
ef10ceca9a09       suhrab             "docker-entrypoint.s..." 2 weeks ago        Exited (0) 2 weeks ago        awesome_fermat
5401d6509556       docker/getting-started "/docker-entrypoint..." 2 weeks ago        Exited (0) 2 weeks ago
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