

VARIOUS COMMANDS USED IN DOCKER

1.for checking version

\$docker version

```
docker@ip-172-31-0-171:~$ docker version
Client:
 Version:           20.10.12
 API version:       1.41
 Go version:        go1.17.3
 Git commit:        20.10.12-0ubuntu4
 Built:             Mon Mar  7 17:10:06 2022
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true

Server:
 Engine:
  Version:          20.10.12
  API version:      1.41 (minimum version 1.12)
  Go version:       go1.17.3
  Git commit:       20.10.12-0ubuntu4
  Built:            Mon Mar  7 15:57:50 2022
  OS/Arch:          linux/amd64
  Experimental:     false
 containerd:
  Version:          1.5.9-0ubuntu3
  GitCommit:
 runc:
  Version:          1.1.0-0ubuntu1
  GitCommit:
 docker-init:
```

2.For seeing only version

\$docker --version

```
docker@ip-172-31-0-171:~$ docker --version
Docker version 20.10.12, build 20.10.12-0ubuntu4
docker@ip-172-31-0-171:~$ █
```

3.for getting help on docker commands

\$docker help

```
docker@ip-172-31-0-171:~$ docker help

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
  --config string      Location of client config files (default "/home/docker/.docker")
  -c, --context string  Name of the context to use to connect to the daemon (overrides DOCKER_HOST env var and default context use)
  -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/docker/.docker/ca.pem")
      --tlscert string   Path to TLS certificate file (default "/home/docker/.docker/cert.pem")
      --tlskey string    Path to TLS key file (default "/home/docker/.docker/key.pem")
      --tlsverify        Use TLS and verify the remote
  -v, --version         Print version information and quit

Management Commands:
  builder      Manage builds
  config       Manage Docker configs
  container    Manage containers
  context      Manage contexts
```

4.getting help on specific command

\$docker command -help

```
docker@ip-172-31-0-171:~$ docker pull --help

Usage:  docker pull [OPTIONS] NAME[:TAG|@DIGEST]

Pull an image or a repository from a registry

Options:
  -a, --all-tags      Download all tagged images in the repository
      --disable-content-trust Skip image verification (default true)
      --platform string Set platform if server is multi-platform capable
  -q, --quiet         Suppress verbose output
docker@ip-172-31-0-171:~$
```

5.To pull any image or repository from a registry

\$docker pull docker image

```
docker@ip-172-31-0-171:~$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:18a657d0cc1c7d0678a3fbea8b7eb4918bba25968d3e1b0adebfa71caddbc346
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
docker@ip-172-31-0-171:~$
```

6.To create container from a image

\$docker run image

```
docker@ip-172-31-0-171:~$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
```

7.To list all the containers

\$docker ps -a

```
docker@ip-172-31-0-171:~$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS          PORTS          NAMES
f0ee5c4ec99e   hello-world    "/hello"                9 minutes ago Exited (0) 9 minutes ago          tender_rosalind
docker@ip-172-31-0-171:~$
```

8.To see full info about docker session

\$docker info

```
docker@ip-172-31-0-171:~$ docker info
Client:
 Context:    default
 Debug Mode: false

Server:
 Containers: 3
  Running: 0
  Paused: 0
  Stopped: 3
 Images: 1
 Server Version: 20.10.12
 Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
  Native Overlay Diff: true
  userxattr: false
 Logging Driver: json-file
 Cgroup Driver: systemd
 Cgroup Version: 2
 Plugins:
  Volume: local
  Network: bridge host ipvlan macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
 Swarm: inactive
```

9.List all docker images

\$docker images

```
docker@ip-172-31-0-171:~$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world   latest    feb5d9fea6a5   13 months ago  13.3kB
docker@ip-172-31-0-171:~$
```

10.To delete a stopped container

\$docker rm <container id>

```
docker@ip-172-31-0-171:~$ docker ps -a
CONTAINER ID   IMAGE          COMMAND         CREATED        STATUS          PORTS          NAMES
b93ca1798ca2   hello-world    "/hello"       9 minutes ago  Exited (0)      9 minutes ago  heuristic_kapitsa
783ef71a9918   hello-world    "/hello"       12 minutes ago Exited (0)      12 minutes ago frosty_rosalind
f0ee5c4ec99e   hello-world    "/hello"       24 minutes ago Exited (0)      24 minutes ago tender_rosalind
docker@ip-172-31-0-171:~$ docker rm f0ee5c4ec99e
f0ee5c4ec99e
docker@ip-172-31-0-171:~$ docker ps -a
CONTAINER ID   IMAGE          COMMAND         CREATED        STATUS          PORTS          NAMES
b93ca1798ca2   hello-world    "/hello"       9 minutes ago  Exited (0)      9 minutes ago  heuristic_kapitsa
783ef71a9918   hello-world    "/hello"       13 minutes ago Exited (0)      13 minutes ago frosty_rosalind
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```