# 40 Ultimate docker commands with examples | Cheat Sheet

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Docker is an open source software that enables developers to package and run their applications in containerized environment. It utilizes OS-level virtualization to deliver application containerization. Using docker, developers and programmers can built light weight containers which further simplifies the application deployment and testing.

## ****Synopsis****

**docker [OPTIONS] COMMAND [ARG...]**   
**docker daemon [--help|...]**   
**docker [--help|-v|--version]**

## ****Ultimate Docker Commands with Examples****

### ****Example 1: How to Check docker command version****

If you want to check installed docker version then you need to run docker --version command as shown below.

[root@localhost ~]# **docker --version**

Docker version 1.13.1, build 7d71120/1.13.1

### ****Example 2: How to Run a Container****

If you want to download a docker image and run container over it then you need to use docker run <image\_name> syntax as shown below. In this example we are downloading debian image and starting container over it by using docker run debian command as shown below. This command will pull the latest image from repository if not already available in the system and then it will create and start the container using that image.

[root@localhost ~]# **docker run debian**

Unable to find image 'debian:latest' locally

Trying to pull repository docker.io/library/debian ...

latest: Pulling from docker.io/library/debian

627b765e08d1: Pull complete

Digest: sha256:cc58a29c333ee594f7624d968123429b26916face46169304f07580644dde6b2

Status: Downloaded newer image for docker.io/debian:latest

### ****Example 3: How to Check all running Containers****

You can check all running containers by using docker ps command as shown below. This command will give important information like container Id, Image name, uptime etc.

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

4197e54fa6d8 debian "bash" 4 seconds ago Up 3 seconds romantic\_khorana

### ****Example 4: How to Create a Container****

If you want to create a container over a docker image and allocate /bin/bash terminal to it then you need to use docker create -it <image\_name> /bin/bash command as shown below.

Advertisements

[root@localhost ~]# docker create -it debian /bin/bash

a4f0a9ac79e489507bb4603dfc4354127955f555d4d13d4a79a858422d0e7501

### ****Example 5: How to Start and attach STDIN to a Container****

If you are looking to start and attach STDIN to a container then you need to use docker start -ai <container\_id> command. In this example we are attaching STDIN to container a4f0a9ac79e4 using docker start -ai a4f0a9ac79e4 command as shown below.

[root@localhost ~]# docker start -ai a4f0a9ac7

root@a4f0a9ac79e4:/#

### ****Example 6: How to List all the docker images****

If you want to list all the docker images then you need to use docker images command as shown below. It is also equivalent to using docker images ls command.

[root@localhost ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

docker.io/nginx latest 08b152afcfae 27 hours ago 133 MB

docker.io/debian latest 0980b84bde89 36 hours ago 114 MB

### ****Example 7: How to Check the status of all Containers****

If you want to check the status of all the containers then you need to use docker ps -a command as shown below.

[root@localhost ~]# docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

a4f0a9ac79e4 debian "/bin/bash" 7 minutes ago Exited (0) 4 minutes ago nifty\_easley

7fc9795b44de debian "bash" About an hour ago Exited (0) About an hour ago cocky\_shockley

d3d36503939d nginx "/docker-entrypoin..." About an hour ago Exited (0) About an hour ago adoring\_brahmagupta

6f7b950f4f48 nginx "/docker-entrypoin..." About an hour ago Exited (0) About an hour ago relaxed\_curran

### ****Example 8: How to Remove all unused Images****

If you have few unused docker images which you want to remove from your system then you can use docker image prune command as shown below. This will delete all the unused images and will reclaim the free space.

[root@localhost ~]# docker image prune

WARNING! This will remove all dangling images.

Are you sure you want to continue? [y/N] Y

Total reclaimed space: 0 B

### ****Example 9: How to Run Container in Detach Mode****

If you want to run a container in detach mode then you need to use docker run -it -d <container\_name> syntax. In this example we are running container using debian image in detach mode by using docker run -it -d debian command as shown below.

[root@localhost ~]# docker run -it -d debian

4197e54fa6d82f57ddb10f8838c1c524328e20dbf33c791f09258581cdbcc94c

### ****Example 10: How to Stop a Container****

If you want to stop a container then you need to use docker stop <container\_Id> command. In this example we are stopping docker container with Id 4197e54fa6d8 using docker stop 4197e54fa6d8 command as shown below.

[root@localhost ~]# docker stop 4197e54fa6d8

4197e54fa6d8

### ****Example 11: How to Remove a Container****

If you want to remove a container then you need to use docker rm <container\_id> syntax. In this example we are removing container with ID of 4197e54fa6d8 using docker rm 4197e54fa6d8 command as shown below.

[root@localhost ~]# docker rm 4197e54fa6d8

4197e54fa6d8

### ****Example 12: How to Access a Container****

If you want to access the container bash login shell then you need to use docker exec -ti <container\_id> bash command. In this example we are accessing the bash shell of container Id 0ea2b7740fa0 using docker exec -ti 0ea2b7740fa0 bash command as shown below.

[root@localhost ~]# docker exec -ti 0ea2b7740fa0 bash

root@0ea2b7740fa0:/# pwd

/

### ****Example 13: How to Start a docker Container****

To start a docker container you need to use docker start <container\_ID> syntax. In this example we are starting our container using docker start 0ea2b7740fa0 command as shown below.

[root@localhost ~]# docker start 0ea2b7740fa0

0ea2b7740fa0

### ****Example 14: How to Restart a docker Container****

To restart a docker container you can use docker restart <Image\_ID> syntax. In this example we are restarting container with Image ID 0ea2b7740fa0 using docker restart 0ea2b7740fa0 command as shown below.

[root@localhost ~]# docker restart 0ea2b7740fa0

0ea2b7740fa0

### ****Example 15: How to List all the docker network Details****

If you want to check the network details of all the containers then you need to use docker network ls command as shown below.

[root@localhost ~]# docker network ls

NETWORK ID NAME DRIVER SCOPE

25bb1b9cb758 bridge bridge local

0f2a83ace0cb host host local

9ecf78fda3a4 none null local

### ****Example 16: How to Check Complete Docker Information****

If you are looking to check the detailed information about docker then you need to use docker info command as shown below. This will give you in-depth information about docker.

[root@localhost ~]# docker info

Containers: 5

Running: 0

Paused: 0

Stopped: 5

Images: 2

Server Version: 1.13.1

Storage Driver: overlay2

Backing Filesystem: xfs

Supports d\_type: true

Native Overlay Diff: true

Logging Driver: journald

Cgroup Driver: systemd

Plugins:

Volume: local

Network: bridge host macvlan null overlay

### ****Example 17: How to Search a Docker Image****

Sometimes you might need to search a docker Image from Docker hub for its availability. This can be done by using docker search <image\_name> syntax. In this example, we are searching nginx Image from Docker hub using docker search nginx command as shown below.

[root@localhost ~]# docker search nginx

INDEX NAME DESCRIPTION STARS OFFICIAL AUTOMATED

docker.io docker.io/nginx Official build of Nginx. 15199 [OK]

docker.io docker.io/jwilder/nginx-proxy Automated Nginx reverse proxy for docker c... 2050 [OK]

docker.io docker.io/richarvey/nginx-php-fpm Container running Nginx + PHP-FPM capable ... 816 [OK]

docker.io docker.io/jc21/nginx-proxy-manager Docker container for managing Nginx proxy ... 222

docker.io docker.io/linuxserver/nginx An Nginx container, brought to you by Linu... 149

docker.io docker.io/tiangolo/nginx-rtmp Docker image with Nginx using the nginx-rt... 136 [OK]

docker.io docker.io/jlesage/nginx-proxy-manager Docker container for Nginx Proxy Manager 124 [OK]

docker.io docker.io/alfg/nginx-rtmp NGINX, nginx-rtmp-module and FFmpeg from s... 102 [OK]

docker.io docker.io/nginxdemos/hello NGINX webserver that serves a simple page ... 70 [OK]

docker.io docker.io/privatebin/nginx-fpm-alpine PrivateBin running on an Nginx, php-fpm & ... 56 [OK]

### ****Example 18: How to Create a Docker Volume****

If you want to create a docker volume then you need to use docker volume create command as shown below.

[root@localhost ~]# docker volume create

8547fc6de7d059490da10b74e8172f6c8851d3a3ed384c3350b9d409af827032

### ****Example 19: How to List all the Docker Volume****

You can use docker volume ls command to list all the volumes known to docker as shown below.

[root@localhost ~]# docker volume ls

DRIVER VOLUME NAME

local 8547fc6de7d059490da10b74e8172f6c8851d3a3ed384c3350b9d409af827032

### ****Example 20: How to Kill a Container****

If you want to immediately remove the container and its processes then you need kill it by using docker kill <container\_Id> syntax. This command is mostly used when you are unable to stop and remove the container in a normal way. In this example we are killing container ID 12576eaaab85 using docker kill 12576eaaab85 command as shown below.

[root@localhost ~]# docker kill 12576eaaab85

12576eaaab85

### ****Example 21: How to Download a docker Image****

If you want to only download a docker image then you need to use docker pull <image\_name> command. In this example we are downloading latest ubuntu image by using docker pull ubuntu command as shown below.

[root@localhost ~]# docker pull ubuntu

Using default tag: latest

Trying to pull repository docker.io/library/ubuntu ...

latest: Pulling from docker.io/library/ubuntu

a31c7b29f4ad: Pull complete

Digest: sha256:b3e2e47d016c08b3396b5ebe06ab0b711c34e7f37b98c9d37abe794b71cea0a2

Status: Downloaded newer image for docker.io/ubuntu:latest

### ****Example 22: How to Save a Image to a Tar Archive****

If you want to save an image to a tar archive then you need to use docker save <image\_name> > <some\_name>.tar syntax. In this example we are saving debian image to debian.tar archive using docker save debian > debian.tar command as shown below.

[root@localhost ~]# docker save debian > debian.tar

[root@localhost ~]# du -sh debian.tar

114M debian.tar

### ****Example 23: How to Check Docker Stats****

If you want to check all the container stats then you need to use docker stats command as shown below. This command will provide you the CPU and memory utilization of all the containers along with the other important information as you can see below.

[root@localhost ~]# docker stats

CONTAINER CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

a8119bfd0966 0.00% 452 KiB / 1.795 GiB 0.02% 5.79 kB / 656 B 0 B / 0 B 1

CONTAINER CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

a8119bfd0966 0.00% 452 KiB / 1.795 GiB 0.02% 5.79 kB / 656 B 0 B / 0 B 1

CONTAINER CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

a8119bfd0966 0.00% 452 KiB / 1.795 GiB 0.02% 5.79 kB / 656 B 0 B / 0 B 1

CONTAINER CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

a8119bfd0966 0.00% 452 KiB / 1.795 GiB 0.02% 5.79 kB / 656 B 0 B / 0 B 1

### ****Example 24: How to forcefully delete a docker Image****

If you are unable to delete a docker Image normally then you can try to delete it forcefully by using -f option. In this example we are forcefully deleting docker Image of ID 0980b84bde89 using docker rmi -f 0980b84bde89 command as shown below.

[root@localhost ~]# docker rmi -f 0980b84bde89

Untagged: docker.io/debian:latest

Untagged: docker.io/debian@sha256:cc58a29c333ee594f7624d968123429b26916face46169304f07580644dde6b2

Deleted: sha256:0980b84bde890bbdd5db43522a34b4f7c3c96f4d026527f4a7266f7ee408780d

### ****Example 25: How to Load Image from a Tar File****

If you want to load the docker image which is currently available in tar archive format then you need to use docker load --input <tar\_file> command. In this example we are loading debian.tar archive using docker load --input debian.tar command as shown below.

[root@localhost ~]# docker load --input debian.tar

Loaded image: docker.io/debian:latest

[root@localhost ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

docker.io/nginx latest 08b152afcfae 33 hours ago 133 MB

docker.io/debian latest 0980b84bde89 42 hours ago 114 MB

docker.io/ubuntu latest c29284518f49 9 days ago 72.8 MB

### ****Example 26: How to Check docker disk Usage****

If you want to check the amount of disk space used by docker then you need to use docker system df command as shown below.

[root@localhost ~]# docker system df

TYPE TOTAL ACTIVE SIZE RECLAIMABLE

Images 3 2 320.1 MB 72.78 MB (22%)

Containers 11 0 2.218 kB 2.218 kB (100%)

Local Volumes 1 0 0 B 0 B

### ****Example 27: How to Login to Docker Hub****

If you want to login to Docker Hub using command line shell then you need to use docker login command. Here you need to provide your valid docker id and password to login.

[root@localhost ~]# docker login

Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.

Username: cyberithub

Password:

Login Succeeded

### ****Example 28: How to Log out from Docker Registry****

To log out from docker registry you need to use docker logout command as shown below.

[root@localhost ~]# docker logout

Removing login credentials for https://index.docker.io/v1/

### ****Example 29: How to Create a new Image from a Container's Changes****

If you want to create a new image after doing certain changes in container then you need to use docker container commit <container\_id> <name> syntax.

[root@localhost ~]# docker container commit c9ed8d8e9e1c debian:latest

sha256:06b06e038e17d38f3d7b1f702c390cb32bab62800b895feda63007d21e8b289d

### ****Example 30: How to Inspect the Changes of Container Files and Directories****

If you want to know the changes done on files and directories within the container filesystem then you need to use docker diff <container\_id> syntax. In this example we are checking all the changes done within Container ID c9ed8d8e9e1c using docker diff c9ed8d8e9e1c command as shown below.

[root@localhost ~]# docker diff c9ed8d8e9e1c

C /run

D /run/secrets

### ****Example 31: How to Pause all the processes within a Container****

If you want to pause all the processes within a container then you need to use docker pause <container\_ID> command. In this example, we are pausing all the processes within Container ID c9ed8d8e9e1c using docker pause c9ed8d8e9e1c command as shown below.

[root@localhost ~]# docker pause c9ed8d8e9e1c

c9ed8d8e9e1c

### ****Example 32: How to Update a Container's CPU-Shares****

If you want to update the CPU shares of a container then you need to use --cpu-shares option and pass the value using docker update command. In this example, we are updating CPU shares of container ID c9ed8d8e9e1c to 100 by using docker update --cpu-shares 100 c9ed8d8e9e1c command as shown below.

[root@localhost ~]# docker update --cpu-shares 100 c9ed8d8e9e1c

c9ed8d8e9e1c

### ****Example 33: How to Unpause all the processes within a Container****

If you want to unpause all the processes within a container which was paused earlier then you need to use docker unpause <container\_id> syntax. In this example, we are unpausing all the processes within Container ID c9ed8d8e9e1c using docker unpause c9ed8d8e9e1c command as shown below.

[root@localhost ~]# docker unpause c9ed8d8e9e1c

c9ed8d8e9e1c

### ****Example 34: How to Tag an Image By ID****

If you want to tag any local image in a repository with some version then you need to use docker tag <image\_id> <repository>:<version> syntax. In this example we are tagging Image ID 06b06e038e17 using docker tag 06b06e038e17 docker.io/debian:latest-release command as shown below.

[root@localhost ~]# docker tag 06b06e038e17 docker.io/debian:latest-release

[root@localhost ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

docker.io/debian latest-release 06b06e038e17 About an hour ago 114 MB

### ****Example 35: How to Check the Logs of a Container****

If you are facing any issues with container then you can check its logs by using docker logs <container\_id> syntax. In this example we are checking logs of container ID c9ed8d8e9e1c using docker logs c9ed8d8e9e1c command as shown below.

[root@localhost ~]# docker logs c9ed8d8e9e1c

### ****Example 36: How to Push an Image to Dockerhub****

If you want to push an Image to docker hub registry then you need to use docker push <image\_name> syntax. In this example we are pushing cyberithub/debian image to docker hub registry using docker push cyberithub/debian command as shown below.

[root@localhost ~]# docker push cyberithub/debian

The push refers to a repository [docker.io/cyberithub/debian]

b7d836cab8ae: Pushed

afa3e488a0ee: Mounted from library/debian

latest: digest: sha256:60fc02849f608abb8fb892318a6803ab87c86ef61b49927d6713f206e7bee3c9 size: 736

### ****Example 37: How to Rename a Container****

If you want to rename a container then you need to use docker rename <current\_name> <new\_name> syntax. In this example we are renaming container quizzical\_heisenberg to debian\_latest using docker rename quizzical\_heisenberg debian\_latest command as shown below.

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

c9ed8d8e9e1c 0980b84bde89 "bash" About an hour ago Up About an hour quizzical\_heisenberg

[root@localhost ~]# docker rename quizzical\_heisenberg debian\_latest

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

c9ed8d8e9e1c 0980b84bde89 "bash" About an hour ago Up About an hour debian\_latest

### ****Example 38: How to Check Container Information in JSON format****

If you want to check the container information in JSON format then you need to use docker inspect <container\_id> syntax. In this example we are checking all the information related to Container ID c9ed8d8e9e1c using docker inspect c9ed8d8e9e1c command as shown below.

[root@localhost ~]# docker inspect c9ed8d8e9e1c

[

{

"Id": "c9ed8d8e9e1c64799a9c71dbf51804602a5da955f796f075b64906c80a440505",

"Created": "2021-07-24T03:27:40.698139586Z",

"Path": "bash",

"Args": [],

"State": {

"Status": "running",

"Running": true,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"Dead": false,

"Pid": 2017,

"ExitCode": 0,

"Error": "",

"StartedAt": "2021-07-24T03:27:42.009939511Z",

"FinishedAt": "0001-01-01T00:00:00Z"

},

### ****Example 39: How to Check all the options available with docker command****

If you want to check all the options available with docker command then you need to use docker --help command as shown below.

[root@localhost ~]# docker --help

Usage: docker COMMAND

A self-sufficient runtime for containers

Options:

--config string Location of client config files (default "/root/.docker")

-D, --debug Enable debug mode

--help Print usage

-H, --host list Daemon socket(s) to connect to (default [])

-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 "/root/.docker/ca.pem")

--tlscert string Path to TLS certificate file (default "/root/.docker/cert.pem")

--tlskey string Path to TLS key file (default "/root/.docker/key.pem")

--tlsverify Use TLS and verify the remote

-v, --version Print version information and quit

### ****Example 40: How to Check Man Page of docker command****

If you want to check the man page of docker command then you need to use man docker command as shown below.

[root@localhost ~]# man docker

DOCKER(1) APRIL 2014 DOCKER(1)

NAME

docker - Docker image and container command line interface

SYNOPSIS

docker [OPTIONS] COMMAND [ARG...]

docker daemon [--help|...]

docker [--help|-v|--version]

DESCRIPTION

is a client for interacting with the daemon (see dockerd(8)) through the CLI.

The Docker CLI has over 30 commands. The commands are listed below and each has its own man page which explain usage and arguments.

窗体底端