Docker
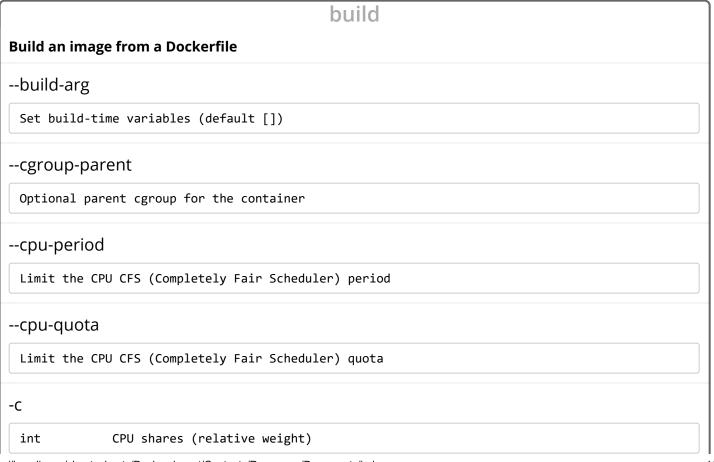
Enjoy this cheat sheet at its fullest within Dash, the macOS documentation browser.

attach

Attach to a running container

--detach-keys

```
Override the key sequence for detaching a container
```

--help

```
Print usage
```

--no-stdin

```
Do not attach STDIN
```

--sig-proxy

```
Proxy all received signals to the process (default true)
```

build

Build an image from a Dockerfile

--build-arg

```
Set build-time variables (default [])
```

--cgroup-parent

```
Optional parent cgroup for the container
```

--cpu-period

```
Limit the CPU CFS (Completely Fair Scheduler) period
```

--cpu-quota

```
Limit the CPU CFS (Completely Fair Scheduler) quota
```

-c

```
int        CPU shares (relative weight)
```

--cpuset-cpus

```
CPUs in which to allow execution (0-3, 0,1)
```

--cpuset-mems

```
MEMs in which to allow execution (0-3, 0,1)
```

--disable-content-trust

```
Skip image verification (default true)
```

-f

```
string          Name of the Dockerfile (Default is 'PATH/Dockerfile')
```

--force-rm

```
Always remove intermediate containers
```

--help

```
Print usage
```

--isolation

```
Container isolation technology
```

--label

```
Set metadata for an image (default [])
```

-m

```
string        Memory limit
```

--memory-swap

```
Swap limit equal to memory plus swap: '-1' to enable unlimited swap
```

--no-cache

```
Do not use cache when building the image
```

--pull

```
Always attempt to pull a newer version of the image
```

-q

Suppress the build output and print image ID on success

--rm

Remove intermediate containers after a successful build (default true)

--shm-size

Size of /dev/shm, default value is 64MB

-t

value   Name and optionally a tag in the 'name:tag' format (default [])

--ulimit

Ulimit options (default [])

---

commit

Create a new image from a container's changes

-a

string   Author (e.g., "John Hannibal Smith <hannibal@a-team.com>")

-c

value   Apply Dockerfile instruction to the created image (default [])

--help

Print usage

-m

string   Commit message

-p

Pause container during commit (default true)

---

cp

Copy files/folders between a container and the local filesystem

-L

```
Always follow symbol link in SRC_PATH
```

--help

```
Print usage
```

---

create

Create a new container

--add-host

```
Add a custom host-to-IP mapping (host:ip) (default [])
```

-a

```
value                Attach to STDIN, STDOUT or STDERR (default [])
```

--blkio-weight

```
Block IO (relative weight), between 10 and 1000
```

--blkio-weight-device

```
Block IO weight (relative device weight) (default [])
```

--cap-add

```
Add Linux capabilities (default [])
```

--cap-drop

```
Drop Linux capabilities (default [])
```

--cgroup-parent

```
Optional parent cgroup for the container
```

--cidfile

```
Write the container ID to the file
```

--cpu-percent

```
CPU percent (Windows only)
```

--cpu-period

```
Limit CPU CFS (Completely Fair Scheduler) period
```

--cpu-quota

```
Limit CPU CFS (Completely Fair Scheduler) quota
```

-c

```
int              CPU shares (relative weight)
```

--cpuset-cpus

```
CPUs in which to allow execution (0-3, 0,1)
```

--cpuset-mems

```
MEMs in which to allow execution (0-3, 0,1)
```

--device

```
Add a host device to the container (default [])
```

--device-read-bps

```
Limit read rate (bytes per second) from a device (default [])
```

--device-read-iops

```
Limit read rate (IO per second) from a device (default [])
```

--device-write-bps

```
Limit write rate (bytes per second) to a device (default [])
```

--device-write-iops

```
Limit write rate (IO per second) to a device (default [])
```

--disable-content-trust

```
Skip image verification (default true)
```

--dns

```
Set custom DNS servers (default [])
```

--dns-opt

```
Set DNS options (default [])
```

--dns-search

```
Set custom DNS search domains (default [])
```

--entrypoint

```
Overwrite the default ENTRYPOINT of the image
```

-e

```
value                    Set environment variables (default [])
```

--env-file

```
Read in a file of environment variables (default [])
```

--expose

```
Expose a port or a range of ports (default [])
```

--group-add

```
Add additional groups to join (default [])
```

--health-cmd

```
Command to run to check health
```

--health-interval

```
Time between running the check
```

--health-retries

```
Consecutive failures needed to report unhealthy
```

--health-timeout

```
Maximum time to allow one check to run
```

--help

```
Print usage
```

-h

```
string                    Container host name
```

-i

```
Keep STDIN open even if not attached
```

--io-maxbandwidth

```
Maximum IO bandwidth limit for the system drive (Windows only)
```

--io-maxiops

```
Maximum IOps limit for the system drive (Windows only)
```

--ip

```
Container IPv4 address (e.g. 172.30.100.104)
```

--ip6

```
Container IPv6 address (e.g. 2001:db8::33)
```

--ipc

```
IPC namespace to use
```

--isolation

```
Container isolation technology
```

--kernel-memory

```
Kernel memory limit
```

-l

```
value                     Set meta data on a container (default [])
```

--label-file

```
Read in a line delimited file of labels (default [])
```

--link

```
Add link to another container (default [])
```

--link-local-ip

Container IPv4/IPv6 link-local addresses (default [])

--log-driver

Logging driver for container

--log-opt

Log driver options (default [])

--mac-address

Container MAC address (e.g. 92:d0:c6:0a:29:33)

-m

string   Memory limit

--memory-reservation

Memory soft limit

--memory-swap

Swap limit equal to memory plus swap: '-1' to enable unlimited swap

--memory-swappiness

Tune container memory swappiness (0 to 100) (default -1)

--name

Assign a name to the container

--net

Connect a container to a network (default "default")

--net-alias

Add network-scoped alias for the container (default [])

--no-healthcheck

Disable any container-specified HEALTHCHECK

--oom-kill-disable

```
Disable OOM Killer
```

--oom-score-adj

```
Tune host's OOM preferences (-1000 to 1000)
```

--pid

```
PID namespace to use
```

--pids-limit

```
Tune container pids limit (set -1 for unlimited)
```

--privileged

```
Give extended privileges to this container
```

-p

```
value            Publish a container's port(s) to the host (default [])
```

-P

```
Publish all exposed ports to random ports
```

--read-only

```
Mount the container's root filesystem as read only
```

--restart

```
Restart policy to apply when a container exits (default "no")
```

--runtime

```
Runtime to use for this container
```

--security-opt

```
Security Options (default [])
```

--shm-size

```
Size of /dev/shm, default value is 64MB
```
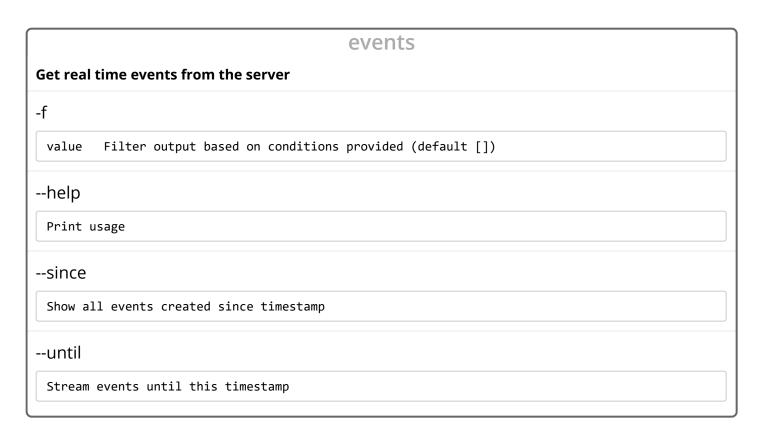
--stop-signal

```
Signal to stop a container, SIGTERM by default (default "SIGTERM")
```

--storage-opt

```
Set storage driver options per container (default [])
```

--sysctl

```
Sysctl options (default map[])
```

--tmpfs

```
Mount a tmpfs directory (default [])
```

-t

```
Allocate a pseudo-TTY
```

--ulimit

```
Ulimit options (default [])
```

-u

```
string                Username or UID (format: <name|uid>[:<group|gid>])
```

--userns

```
User namespace to use
```

--uts

```
UTS namespace to use
```

-v

```
value              Bind mount a volume (default [])
```

--volume-driver

```
Optional volume driver for the container
```

--volumes-from

```
Mount volumes from the specified container(s) (default [])
```

-W

```
string                Working directory inside the container
```

deploy

Create and update a stack

-f

```
string    Path to a bundle (Default: STACK.dsb)
```

--help

```
Print usage
```

diff

Inspect changes on a container's filesystem

--help

```
Print usage
```

events

Get real time events from the server

-f

```
value    Filter output based on conditions provided (default [])
```

--help

```
Print usage
```

--since

```
Show all events created since timestamp
```

--until

```
Stream events until this timestamp
```

exec

Run a command in a running container

export

Export a container's filesystem as a tar archive

--help

```
Print usage
```

-o

```
string    Write to a file, instead of STDOUT
```

history

Show the history of an image

--help

```
Print usage
```

-H

```
Print sizes and dates in human readable format (default true)
```

--no-trunc

```
Don't truncate output
```

-q

```
Only show numeric IDs
```

images

List images

-a

```
Show all images (default hides intermediate images)
```

--digests

```
Show digests
```

-f

```
value     Filter output based on conditions provided (default [])
```

--format

```
Pretty-print images using a Go template
```

--help

```
Print usage
```

--no-trunc

```
Don't truncate output
```

-q

```
Only show numeric IDs
```

import

Import the contents from a tarball to create a filesystem image

-c

```
value     Apply Dockerfile instruction to the created image (default [])
```

--help

```
Print usage
```

-m

```
string   Set commit message for imported image
```
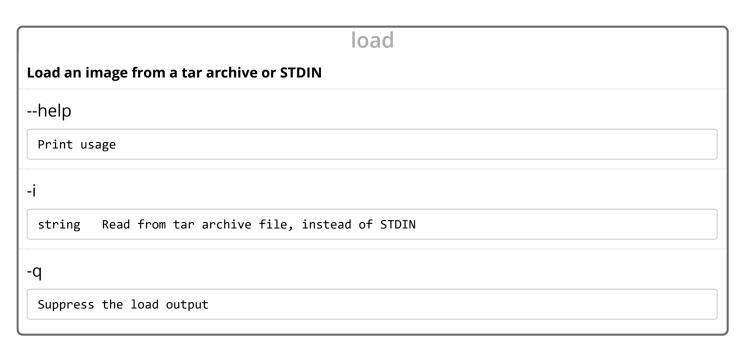
info

Display system-wide information

inspect

Return low-level information on a container, image or task

kill

Kill one or more running container

--help

```
Print usage
```

-s

```
string   Signal to send to the container (default "KILL")
```

load

Load an image from a tar archive or STDIN

--help

```
Print usage
```

-i

```
string   Read from tar archive file, instead of STDIN
```

-q

```
Suppress the load output
```

login

Log in to a Docker registry.

--help

```
Print usage
```

-p

```
string   Password
```

-u

```
string   Username
```

logout

Log out from a Docker registry.

--help

```
Print usage
```

logs

Fetch the logs of a container

--details

```
Show extra details provided to logs
```

-f

```
Follow log output
```

--help

```
Print usage
```

--since

```
Show logs since timestamp
```

--tail

```
Number of lines to show from the end of the logs (default "all")
```

-t

```
Show timestamps
```

network

Manage Docker networks

--help

```
Print usage
```

node

Manage Docker Swarm nodes

--help

```
Print usage
```

pause

Pause all processes within one or more containers

--help

```
Print usage
```

plugin

Manage Docker plugins

--help

```
Print usage
```

port

List port mappings or a specific mapping for the container

--help

```
Print usage
```

ps

List containers

-n

```
int          Show n last created containers (includes all states) (default -1)
```

-a

```
Show all containers (default shows just running)
```

-f

```
value    Filter output based on conditions provided (default [])
```

--format

```
Pretty-print containers using a Go template
```

--help

```
Print usage
```

-l

```
Show the latest created container (includes all states)
```

--no-trunc

```
Don't truncate output
```

-q

```
Only display numeric IDs
```

-s

```
Display total file sizes
```

pull

Pull an image or a repository from a registry

-a

```
Download all tagged images in the repository
```

--disable-content-trust

```
Skip image verification (default true)
```

--help

```
Print usage
```

push

Push an image or a repository to a registry

--disable-content-trust

```
Skip image verification (default true)
```

--help

```
Print usage
```

rename

Rename a container

--help

```
Print usage
```

restart

Restart a container

--help

```
Print usage
```

-t

```
int    Seconds to wait for stop before killing the container (default 10)
```

rm

Remove one or more containers

-f

```
Force the removal of a running container (uses SIGKILL)
```

--help

```
Print usage
```

-l

```
Remove the specified link
```

-v

```
Remove the volumes associated with the container
```

rmi

Remove one or more images

-f

```
Force removal of the image
```

--help

```
Print usage
```

--no-prune

```
Do not delete untagged parents
```

run

Run a command in a new container

--add-host

```
Add a custom host-to-IP mapping (host:ip) (default [])
```

-a

```
value              Attach to STDIN, STDOUT or STDERR (default [])
```

--blkio-weight

```
Block IO (relative weight), between 10 and 1000
```

--blkio-weight-device

```
Block IO weight (relative device weight) (default [])
```

--cap-add

```
Add Linux capabilities (default [])
```

--cap-drop

```
Drop Linux capabilities (default [])
```

--cgroup-parent

```
Optional parent cgroup for the container
```

--cidfile

```
Write the container ID to the file
```

--cpu-percent

```
CPU percent (Windows only)
```

--cpu-period

```
Limit CPU CFS (Completely Fair Scheduler) period
```

--cpu-quota

```
Limit CPU CFS (Completely Fair Scheduler) quota
```

-c

```
int             CPU shares (relative weight)
```

--cpuset-cpus

```
CPUs in which to allow execution (0-3, 0,1)
```

--cpuset-mems

```
MEMs in which to allow execution (0-3, 0,1)
```

-d

```
Run container in background and print container ID
```

--detach-keys

```
Override the key sequence for detaching a container
```

--device

```
Add a host device to the container (default [])
```

--device-read-bps

```
Limit read rate (bytes per second) from a device (default [])
```

--device-read-iops

```
Limit read rate (IO per second) from a device (default [])
```
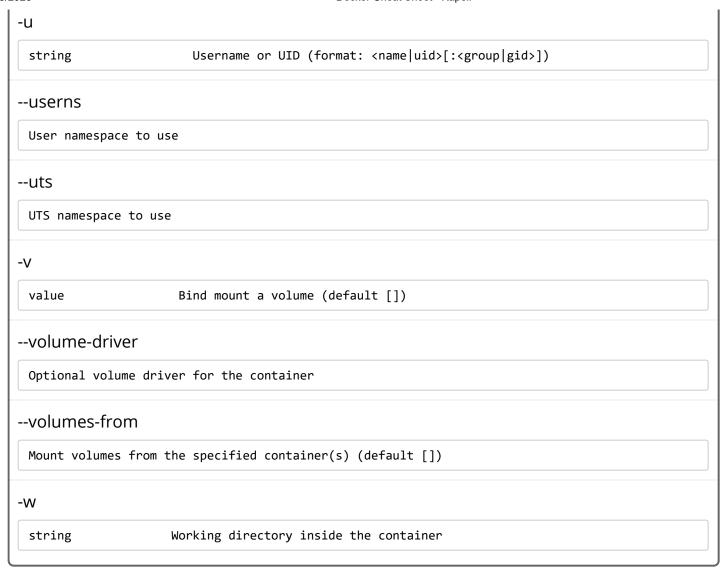
--device-write-bps

```
Limit write rate (bytes per second) to a device (default [])
```

--device-write-iops

```
Limit write rate (IO per second) to a device (default [])
```

--disable-content-trust

```
Skip image verification (default true)
```

--dns

```
Set custom DNS servers (default [])
```

--dns-opt

```
Set DNS options (default [])
```

--dns-search

```
Set custom DNS search domains (default [])
```

--entrypoint

```
Overwrite the default ENTRYPOINT of the image
```

-e

```
value                   Set environment variables (default [])
```

--env-file

```
Read in a file of environment variables (default [])
```

--expose

```
Expose a port or a range of ports (default [])
```

--group-add

```
Add additional groups to join (default [])
```

--health-cmd

```
Command to run to check health
```

--health-interval

```
Time between running the check
```

--health-retries

```
Consecutive failures needed to report unhealthy
```

--health-timeout

```
Maximum time to allow one check to run
```

--help

```
Print usage
```

-h

```
string           Container host name
```

-i

```
Keep STDIN open even if not attached
```

--io-maxbandwidth

```
Maximum IO bandwidth limit for the system drive (Windows only)
```

--io-maxiops

```
Maximum IOps limit for the system drive (Windows only)
```

--ip

```
Container IPv4 address (e.g. 172.30.100.104)
```

--ip6

```
Container IPv6 address (e.g. 2001:db8::33)
```

--ipc

```
IPC namespace to use
```

--isolation

```
Container isolation technology
```

--kernel-memory

```
Kernel memory limit
```

-l

```
value                 Set meta data on a container (default [])
```

--label-file

```
Read in a line delimited file of labels (default [])
```

--link

```
Add link to another container (default [])
```

--link-local-ip

```
Container IPv4/IPv6 link-local addresses (default [])
```

--log-driver

```
Logging driver for container
```

--log-opt

```
Log driver options (default [])
```

--mac-address

```
Container MAC address (e.g. 92:d0:c6:0a:29:33)
```

-m

```
string                Memory limit
```

--memory-reservation

```
Memory soft limit
```

--memory-swap

```
Swap limit equal to memory plus swap: '-1' to enable unlimited swap
```

--memory-swappiness

```
Tune container memory swappiness (0 to 100) (default -1)
```

--name

Assign a name to the container

--net

Connect a container to a network (default "default")

--net-alias

Add network-scoped alias for the container (default [])

--no-healthcheck

Disable any container-specified HEALTHCHECK

--oom-kill-disable

Disable OOM Killer

--oom-score-adj

Tune host's OOM preferences (-1000 to 1000)

--pid

PID namespace to use

--pids-limit

Tune container pids limit (set -1 for unlimited)

--privileged

Give extended privileges to this container

-p

value   Publish a container's port(s) to the host (default [])

-P

Publish all exposed ports to random ports

--read-only

Mount the container's root filesystem as read only

--restart

```
Restart policy to apply when a container exits (default "no")
```

--rm

```
Automatically remove the container when it exits
```

--runtime

```
Runtime to use for this container
```

--security-opt

```
Security Options (default [])
```

--shm-size

```
Size of /dev/shm, default value is 64MB
```

--sig-proxy

```
Proxy received signals to the process (default true)
```

--stop-signal

```
Signal to stop a container, SIGTERM by default (default "SIGTERM")
```

--storage-opt

```
Set storage driver options per container (default [])
```

--sysctl

```
Sysctl options (default map[])
```

--tmpfs

```
Mount a tmpfs directory (default [])
```

-t

```
Allocate a pseudo-TTY
```

--ulimit

```
Ulimit options (default [])
```

-u

```
string                   Username or UID (format: <name|uid>[:<group|gid>])
```

--userns

```
User namespace to use
```

--uts

```
UTS namespace to use
```

-v

```
value            Bind mount a volume (default [])
```

--volume-driver

```
Optional volume driver for the container
```

--volumes-from

```
Mount volumes from the specified container(s) (default [])
```

-w

```
string            Working directory inside the container
```

save

Save one or more images to a tar archive (streamed to STDOUT by default)

--help

```
Print usage
```

-o

```
string    Write to a file, instead of STDOUT
```

search

Search the Docker Hub for images

-f

```
value    Filter output based on conditions provided (default [])
```

--help

```
Print usage
```

--limit

```
Max number of search results (default 25)
```

--no-trunc

```
Don't truncate output
```

service

Manage Docker services

--help

```
Print usage
```

stack

Manage Docker stacks

--help

```
Print usage
```

start

Start one or more stopped containers

-a

```
Attach STDOUT/STDERR and forward signals
```

--detach-keys

```
Override the key sequence for detaching a container
```
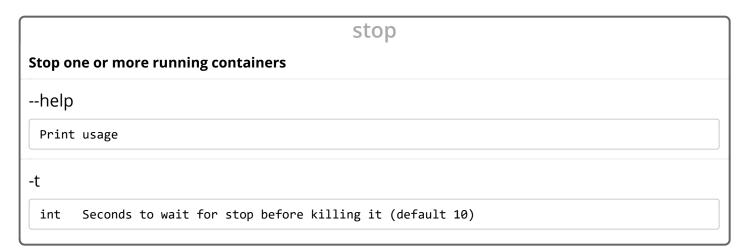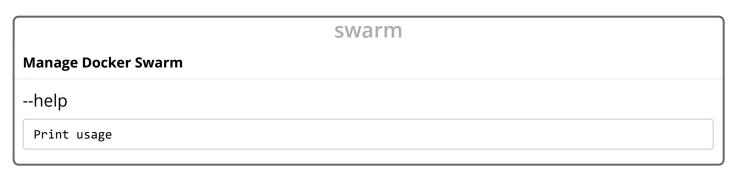
--help

```
Print usage
```

-i

```
Attach container's STDIN
```

stats

Display a live stream of container(s) resource usage statistics

-a

```
Show all containers (default shows just running)
```

--help

```
Print usage
```

--no-stream

```
Disable streaming stats and only pull the first result
```
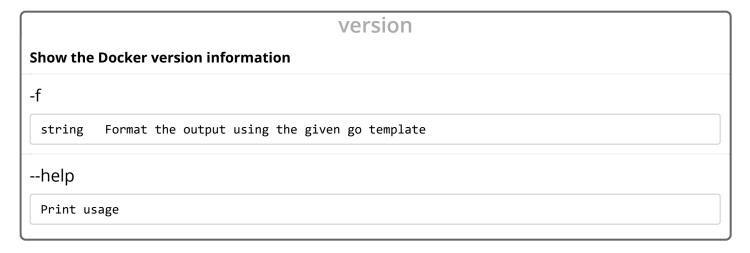
stop

Stop one or more running containers

--help

```
Print usage
```

-t

```
int   Seconds to wait for stop before killing it (default 10)
```

swarm

Manage Docker Swarm

--help

```
Print usage
```

tag

Tag an image into a repository

--help

```
Print usage
```

top

Display the running processes of a container

--help

```
Print usage
```

unpause

Unpause all processes within one or more containers

--help

```
Print usage
```

update

Update configuration of one or more containers

version

Show the Docker version information

-f

```
string   Format the output using the given go template
```

--help

```
Print usage
```

volume

Manage Docker volumes

--help

```
Print usage
```

wait

Block until a container stops, then print its exit code

--help

```
Print usage
```

Notes

- Converted and extended by jhezjkp.

You can modify and improve this cheat sheet here