Docker CLI Cheat Sheet

(for version 1.12.0)

Finding Information

docker info Display system-wide information docker {-vl--version show docker client version Show version information of docker, docker version docker daemon, underlying go language , API , git build tag etc. Return low-level information on a docker inspect {Container|Image} container or Image

Container Lifecycle Management

docker create [OPTIONS] Image [COMMAND] [ARG...]

Run a command in a new docker run [OPTIONS] Image [COMMAND] [ARG...] container Keep STDIN open even if not -i, --interactive attached -t, --ttv Allocate a pseudo-TTY (-d applies to docker run only) Run container in background and -d. --detach print container ID -a, --attach value Attach to STDIN, STDOUT or STDERR CPU shares (relative weight) -c, --cpu-shares int -e, --env value Set environment variables -h, --hostname string Container host name -1, --label value Set meta data on a container -m, --memory string Memory limit Publish a container's port(s) to -p, --publish value the host Publish all exposed ports to random -P, --publish-all ports Username or UID (format: -u. --user string <name|uid>[:<group|gid>]) -v. --volume value Bind mount a volume Working directory inside the -w, --workdir string container

Start one or more stopped docker start [OPTIONS] [CONTAINER] containers

-a, --attach Attach STDOUT/STDERR and forward signals

-i, --interactive Attach container's STDIN

Pause all processes within a docker pause [CONTAINER]

Create a new container

Unpause all processes within a docker unpause [CONTAINER]

docker restart [OPTIONS] [CONTAINER] Restart a running container Seconds to wait for stop before killing the

-t. --time int container(default 10)

docker kill [OPTIONS] [CONTAINER] Kill a running container -s. --signal

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

docker stop [OPTIONS] [CONTAINER] Stop a running container

Seconds to wait for stop before killing the

-t, --time int container(default 10)

docker rm [OPTIONS] [CONTAINER] Remove one or more containers

-f, --force Force the removal of a running container (uses SIGKILL)

Remove the volumes associated with the container -v, --volumes

Copy files/folders docker cp [OPTIONS] Container: SRC PATH DEST PATH |from a container to a docker cp [OPTIONS] SRC PATH |- Container: DEST PATH HOSTDIR or to STDOUT

-L, --follow-link Always follow symbol link in SRC PATH

Run a command in a docker exec [OPTIONS] Container command [ARG...] running container Export a container's filesystem

docker export [OPTIONS] Container as a tar archive

-o, --output string Write to a file, instead of STDOUT

docker ps [OPTIONS] List containers

Show all containers (default shows just running)

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

-1, --latest Show the latest created container (includes all

states)

-q, --quiet Only display numeric IDs

docker rename OLD NAME NEW NAME Rename a container

Display the running processes of docker top Container [ps OPTIONS]

a container

docker attach [OPTIONS] Container Attach to a running container

Seconds to wait for stop before killing the -t. --time int container(default 10)

docker diff Container Inspect changes on a container's filesystem

docker events [OPTIONS] Get real time events from the server

docker logs [OPTIONS] Container Fetch the logs of a container -f, --follow Follow log output

Number of lines to show from the end of the logs --tail string

(default "all") -t, --timestamps Show timestamps

List port mappings or a docker port Container [PRIVATE PORT[/PROTO]] specific mapping for the container

Display a live stream of docker stats [OPTIONS] [Container...] container(s) resource usage statistics

--no-stream Disable streaming stats and only pull the first result

Update configuration of one or docker update [OPTIONS] Container more containers

-c, --cpu-shares CPU shares (relative weight)

-m. --memory Memory limit

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

--restart Restart policy to apply when a container exits Block until a container stops, docker wait Container [Container] then print its exit code

Working with Images

docker build [OPTIONS] PATH | URL | -Build an Image from a Dockerfile -f, --file string Name of the Dockerfile (Default is

'PATH/Dockerfile')

--no-cache Do not use cache when building the Image -a, --auiet Suppress the build output and print Image ID on

success

Remove intermediate containers after a successful --rm

build (default true)

-t, --tag value Name and optionally a tag in the 'name:tag' format

(default [])

Create a new Image docker commit [OPTIONS] Container [REPOSITORY[:TAG]] from a container's

changes

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

-c, --change value Apply Dockerfile instruction to the created Image (default [])

-m, --message string Commit message

Pause container during commit (default true) -p, --pause

docker history [OPTIONS] IMAGE Show the history of an Image Print sizes and dates in human readable format -H, --human (default true)

docker Images [OPTIONS] [REPOSITORY[:TAG]] List Images -f, --filter value Filter output based on conditions provided

Import the contents docker import [OPTIONS] file|URL|-[REPOSITORY[:TAG]] from a tarball to

create a Image docker load [OPTIONS] Load an Image from a tar archive or STDIN

-i, --input string Read from tar archive file, instead of STDIN docker rmi [OPTIONS] Image [Image...] Remove one or more Images

-f, --force Force removal of the Image docker save [OPTIONS] Image [Image...] Save Images to a tar archive

docker tag Image [:TAG] Image [:TAG] Tag an Image into a repository

Working with Registries

Register or log in to a Docker registry docker login [OPTIONS] [SERVER] docker logout [SERVER] Log out from a Docker registry Pull an Image or a repository docker pull [OPTIONS] NAME[:TAG|@DIGEST]

from a Docker registry -a, --all-tags Download all tagged images in the repository

Push an image or a repository to a docker push [OPTIONS] NAME[:TAG] Docker registry

docker search [OPTIONS] TERM Search the Docker Hub for images

Managing Networks

-d. --driver

Connect a container to docker network connect [OPTIONS] NETWORK CONTAINER

--ip string IP Address docker network create [OPTIONS] NETWORK Create a new network

"bridge") --gateway value IPv4 or IPv6 Gateway for the master subnet (default

string Driver to manage the Network (default

--internal Restrict external access to the network --label value Set metadata on a network (default []) Set driver specific options (default map[]) -o. --opt value

Subnet in CIDR format that represents a network segment (default [])

knows about

Remove one or more volumes

Removes one or more networks

Disconnect a docker network disconnect [OPTIONS] NETWORK CONTAINER container from a network

Display information about a docker network inspect [OPTIONS] NETWORK network Lists all the networks the docker network ls [OPTIONS] Engine daemon knows about

docker network rm NETWORK [NETWORK...] Managing Container Volumes

-- subnet value

Creates a new volume where containers docker volume create [OPTIONS] can consume and store data -d. --driver string Specify volume driver name (default "local") --name string Specify volume name Display information about a docker volume inspect [OPTIONS] VOLUME volume Lists all the volumes Docker docker volume is [OPTIONS]

docker volume rm VOLUME [VOLUME...] Managing Swarm Nodes

Promote a node that is pending a docker node promote NODE [NODE...] promotion to manager

Demotes an existing manager so that docker node demote NODE [NODE... it is no longer a manager

Inspect a node in the docker node inspect [OPTIONS] self | NODE [NODE...] swarm

docker node update [OPTIONS] NODE Update attributes for a node

--availability string Availability of the node (active/pause/drain)

--role string Role of the node (worker/manager)

docker node ps [OPTIONS] self|NODE List tasks running on a node docker node ls [OPTIONS] List nodes in the swarm

Remove one or more nodes from the docker node rm [OPTIONS] NODE

swarm

--force Force remove an active node

Working with Swarm

Initialize a swarm docker swarm init [OPTIONS] --advertise-addr string Advertised address (format:

<ip|interface>[:port])

--force-new-cluster Force create a new cluster from current state --listen-addr value Listen address (format: <ip|interface>[:port]) (default 0.0.0.0:2377)

Join a swarm as a manager node

docker swarm join [OPTIONS] HOST:PORT or worker node Advertised address --advertise-addr string

(format: <ip|interface>[:port]) --listen-addr value

Listen address (format: <ip|interface>[:port]) (default 0.0.0.0:2377)

--token string Token for entry into the swarm

Remove the current node from the docker swarm leave [OPTIONS] swarm

Force leave ignoring warnings --force docker swarm update [OPTIONS]

Update attributes of a swarm Validity period for node certificates --cert-expiry duration (default 2160h0m0s)

--dispatcher-heartbeat duration Dispatcher heartbeat period (default --external-ca value

Specifications of one or more certificate signing endpoints --task-history-limit int Task history retention limit (default

Display or rotate docker swarm join-token [--rotate] (worker|manager)

Managing Swarm Services

SCHOOL OF DEVOPS

docker service create [OPTIONS] IMAGE [COMMAND] [ARG...] service Inspect a docker service inspect [OPTIONS] SERVICE [SERVICE...] service

docker service ls [OPTIONS] List services in the swarm Reemove a swervice from docker service rm [OPTIONS] SERVICE [SERVICE...] the swarm

docker service scale SERVICE=REPLICAS Set the number of replicas for [SERVICE=REPLICAS...] docker service ps [OPTIONS] SERVICE

the desired state of the service List the tasks of a service Update the attributes of a docker service update [OPTIONS] SERVICE service

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Create a new



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