

Docker 1.13 Cheat Sheet

David McKay, Author

Building an Image

Building an image with the name "acme-corp/ project" and the tag "latest"

\$ docker image build -t acme-corp/project:latest

Managing Images

Search Docker Hub

\$ docker search node

\$ docker search -f is-official=true node # Show only official images

Pull an image

\$ docker image pull alpine:3.5

Delete an image

\$ docker image rm alpine:3.5

Working with Containers

Listing running containers

\$ docker container Is

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Execute command in an already running container

\$ docker container exec (container name | id) echo "Hello, world"

\$ docker container exec -it (container name | id) sh

Tip: you can usually get away with only the first two characters of the container identifier, provided there are no collisions.

Get log output from a container

\$ docker container logs (container name | id)

Follow log output from a container

\$ docker container logs -f (container name | id)

About the Author

David is a technical lead, developer, trainer, speaker, software and technology consultant, and a practicing Stoic who likes containers.



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Running Containers

Running hello-world:latest container

\$ docker container run --name mycontainer hello-world:latest

Warning: naming containers is generally not a good idea

Run hello-world:latest container and delete after exit

S docker container run --rm hello-world:latest

Warning: using **--rm** will remove the container when it exists, successfully or on error

Running a container and specifying a command to run

\$ docker container run alpine:3.5 echo "Hello, world!"

Run a container and connect to terminal

\$ docker container run -it alpine: 3.5 sh

Run a container and publish container port 80 on host port 10000

\$ docker container run -p 10000:80 nginx:latest

Run a container and publish exposed ports on random host port (>=32768)

\$ docker container run -P nginx:latest

Run a container in the background

\$ docker container run -d nginx:latest

Running Containers (continued)

Run a container and mount a host directory

\$ docker container run -v /home/ rawkode/code/project:/code php:7-cli

Warning: Docker requires absolute paths when mounting a local directory into a container

Tip: if you're in the same directory when executing the command, use \$PWD

Run a container and specify a restart policy for the container (the default is none)

\$ docker container run --restart=on-failure:5 nginx:latest # Restart 5 times on failure \$ docker container run --restart=always nginx:latest # Always restart, regardless of exit code

Maintenance

Check Docker disk usage

\$ docker system df

Removing a container by name or id

\$ docker container rm (container_name | id)

\$ docker container rm -f (container_name | id) # -f /

--force will stop and delete the container

\$ docker container rm -v (container_name | id) # -v /

--volumes will also remove it's volumes

Remove stopped containers, unused volumes, unused networks and danling images

\$ docker system prune