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La hoja de trucos definitiva de Docker

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La hoja de trucos definitiva de Docker

CLI completa de Docker



Cheatsheet for Docker CLI

Run a new Container	Manage Containers	Manage Images	Info & Stats
<p>Start a new Container from an Image <code>docker run IMAGE</code> <code>docker run nginx</code></p> <p>...and assign it a name <code>docker run --name CONTAINER IMAGE</code> <code>docker run --name web nginx</code></p> <p>...and map a port <code>docker run -p HOSTPORT:CONTAINERPORT IMAGE</code> <code>docker run -p 8080:80 nginx</code></p> <p>...and map all ports <code>docker run -P IMAGE</code> <code>docker run -P nginx</code></p> <p>...and start container in background <code>docker run -d IMAGE</code> <code>docker run -d nginx</code></p> <p>...and assign it a hostname <code>docker run --hostname HOSTNAME IMAGE</code> <code>docker run --hostname srv nginx</code></p> <p>...and add a dns entry <code>docker run --add-host HOSTNAME:IP IMAGE</code></p> <p>...and map a local directory into the container <code>docker run -v HOSTDIR:TARGETDIR IMAGE</code> <code>docker run -v ~/usr/share/nginx/html nginx</code></p> <p>...but change the entrypoint <code>docker run -it --entrypoint EXECUTABLE IMAGE</code> <code>docker run -it --entrypoint bash nginx</code></p>	<p>Show a list of running containers <code>docker ps</code></p> <p>Show a list of all containers <code>docker ps -a</code></p> <p>Delete a container <code>docker rm CONTAINER</code> <code>docker rm web</code></p> <p>Delete a running container <code>docker rm -f CONTAINER</code> <code>docker rm -f web</code></p> <p>Delete stopped containers <code>docker container prune</code></p> <p>Stop a running container <code>docker stop CONTAINER</code> <code>docker stop web</code></p> <p>Start a stopped container <code>docker start CONTAINER</code> <code>docker start web</code></p> <p>Copy a file from a container to the host <code>docker cp CONTAINER:SOURCE TARGET</code> <code>docker cp web:/index.html index.html</code></p> <p>Copy a file from the host to a container <code>docker cp TARGET CONTAINER:SOURCE</code> <code>docker cp index.html web:/index.html</code></p> <p>Start a shell inside a running container <code>docker exec -it CONTAINER EXECUTABLE</code> <code>docker exec -it web bash</code></p> <p>Rename a container <code>docker rename OLD_NAME NEW_NAME</code> <code>docker rename 096 web</code></p> <p>Create an image out of container <code>docker commit CONTAINER</code> <code>docker commit web</code></p>	<p>Download an image <code>docker pull IMAGE[:TAG]</code> <code>docker pull nginx</code></p> <p>Upload an image to a repository <code>docker push IMAGE</code> <code>docker push myimage:1.0</code></p> <p>Delete an image <code>docker rmi IMAGE</code></p> <p>Show a list of all Images <code>docker images</code></p> <p>Delete dangling images <code>docker image prune</code></p> <p>Delete all unused images <code>docker image prune -a</code></p> <p>Build an image from a Dockerfile <code>docker build DIRECTORY</code> <code>docker build .</code></p> <p>Tag an image <code>docker tag IMAGE NEWIMAGE</code> <code>docker tag ubuntu ubuntu:18.04</code></p> <p>Build and tag an image from a Dockerfile <code>docker build -t IMAGE DIRECTORY</code> <code>docker build -t myimage .</code></p> <p>Save an image to .tar file <code>docker save IMAGE > FILE</code> <code>docker save nginx > nginx.tar</code></p> <p>Load an image from a .tar file <code>docker load -i TARFILE</code> <code>docker load -i nginx.tar</code></p>	<p>Show the logs of a container <code>docker logs CONTAINER</code> <code>docker logs web</code></p> <p>Show stats of running containers <code>docker stats</code></p> <p>Show processes of container <code>docker top CONTAINER</code> <code>docker top web</code></p> <p>Show installed docker version <code>docker version</code></p> <p>Get detailed info about an object <code>docker inspect NAME</code> <code>docker inspect nginx</code></p> <p>Show all modified files in container <code>docker diff CONTAINER</code> <code>docker diff web</code></p> <p>Show mapped ports of a container <code>docker port CONTAINER</code> <code>docker port web</code></p>

CLI de administración de contenedores

Container management commands

command	description
<code>docker create image [command]</code> <code>docker run image [command]</code>	create the container = <code>create + start</code>
<code>docker start container...</code>	start the container
<code>docker stop container...</code>	graceful ² stop
<code>docker kill container...</code>	kill (SIGKILL) the container
<code>docker restart container...</code>	= <code>stop + start</code>
<code>docker pause container...</code>	suspend the container
<code>docker unpause container...</code>	resume the container
<code>docker rm [-f³] container...</code>	destroy the container

²send SIGTERM to the main process + SIGKILL 10 seconds later

³-f allows removing running containers (= `docker kill + docker rm`)

Inspeccionar el contenedor

Inspecting the container

command	description
<code>docker ps</code>	list running containers
<code>docker ps -a</code>	list all containers
<code>docker logs [-f⁶] container</code>	show the container output (<i>stdout+stderr</i>)
<code>docker top container [ps options]</code>	list the processes running inside the containers
<code>docker diff container</code>	show the differences with the image (modified files)
<code>docker inspect container...</code>	show low-level infos (in json format)

Interactuando con el Contenedor

Interacting with the container

command	description
<code>docker attach container</code>	attach to a running container (stdin/stdout/stderr)
<code>docker cp container:path hostpath - docker cp hostpath - container:path</code>	copy files from the container copy files into the container
<code>docker export container</code>	export the content of the container (tar archive)
<code>docker exec container args...</code>	run a command in an existing container (useful for debugging)
<code>docker wait container</code>	wait until the container terminates and return the exit code
<code>docker commit container image</code>	commit a new docker image (snapshot of the container)

Comandos de gestión de imágenes

Image management commands

command	description
<code>docker images</code>	list all local images
<code>docker history <i>image</i></code>	show the image history (list of ancestors)
<code>docker inspect <i>image...</i></code>	show low-level infos (in json format)
<code>docker tag <i>image tag</i></code>	tag an image
<code>docker commit <i>container image</i></code>	create an image (from a container)
<code>docker import <i>url - [tag]</i></code>	create an image (from a tarball)
<code>docker rmi <i>image...</i></code>	delete images

Comandos de transferencia de imágenes

Image transfer commands

Using the registry API

<code>docker pull repo[:tag]...</code>	pull an image/repo from a registry
<code>docker push repo[:tag]...</code>	push an image/repo from a registry
<code>docker search text</code>	search an image on the official registry
<code>docker login ...</code>	login to a registry
<code>docker logout ...</code>	logout from a registry

Manual transfer

<code>docker save repo[:tag]...</code>	export an image/repo as a tarball
<code>docker load</code>	load images from a tarball
<code>docker-ssh¹⁰ ...</code>	proposed script to transfer images between two daemons over ssh

Comandos principales del constructor

Builder main commands

command	description
<code>FROM image scratch</code>	base image for the build
<code>MAINTAINER email</code>	name of the maintainer (metadata)
<code>COPY path dst</code>	copy <i>path</i> from the context into the container at location <i>dst</i>
<code>ADD src dst</code>	same as <code>COPY</code> but untar archives and accepts http urls
<code>RUN args...</code>	run an arbitrary command inside the container
<code>USER name</code>	set the default username
<code>WORKDIR path</code>	set the default working directory
<code>CMD args...</code>	set the default command
<code>ENV name value</code>	set an environment variable

La CLI de Docker

Administrar imágenes

docker build

```
docker build [options] .
 -t "app/container_name"      # name
```

Cree un `image` desde un Dockerfile.

```
docker run
```

```
docker run [options] IMAGE  
# see `docker create` for options
```

Ejecute un comando en un archivo `image`.

Administrar contenedores

```
docker create
```

```
docker create [options] IMAGE  
-a, --attach           # attach stdout/err  
-i, --interactive     # attach stdin (interactive)  
-t, --tty              # pseudo-tty  
--name NAME            # name your image  
-p, --publish 5000:5000 # port map  
--expose 5432          # expose a port to linked containers  
-P, --publish-all      # publish all ports  
--link container:alias # linking  
-v, --volume `pwd`:app # mount (absolute paths needed)  
-e, --env NAME=hello   # env vars
```

Ejemplo

```
$ docker create --name app_redis_1 \  
--expose 6379 \  
redis:3.0.2
```

Crea un `container` a partir de un `image`.

```
docker exec
```

```
docker exec [options] CONTAINER COMMAND
-d, --detach      # run in background
-i, --interactive # stdin
-t, --tty          # interactive
```

Ejemplo

```
$ docker exec app_web_1 tail logs/development.log
$ docker exec -t -i app_web_1 rails c
```

Ejecutar comandos en un container .

docker start

```
docker start [options] CONTAINER
-a, --attach      # attach stdout/err
-i, --interactive # attach stdin

docker stop [options] CONTAINER
```

Iniciar/detener un container .

docker ps

```
$ docker ps
$ docker ps -a
$ docker kill $ID
```

Administre container correos electrónicos usando ps/kill.

Imágenes

docker images

```
$ docker images
REPOSITORY      TAG      ID
ubuntu          12.10   b750fe78269d
me/myapp        latest   7b2431a8d968
```

```
$ docker images -a    # also show intermediate
```

maneja `image`s.

`docker rmi`

```
docker rmi b750fe78269d
```

Elimina `image`s.

Ver también

- [Primeros pasos \(docker.io\)](#)

Dockerfile

Herencia

```
FROM ruby:2.2.2
```

Variables

```
ENV APP_HOME /myapp
RUN mkdir $APP_HOME
```

Inicialización

```
RUN bundle install
```

```
WORKDIR /myapp
```

```
VOLUME ["/data"]
# Specification for mount point
```

```
ADD file.xyz /file.xyz
COPY --chown=user:group host_file.xyz /path/container_file.xyz
```

en construcción

```
ONBUILD RUN bundle install
# when used with another file
```

Comandos

```
EXPOSE 5900
CMD ["bundle", "exec", "rails", "server"]
```

Punto de entrada

```
ENTRYPOINT ["executable", "param1", "param2"]
ENTRYPOINT command param1 param2
```

Configures a container that will run as an executable.

```
ENTRYPOINT exec top -b
```

This will use shell processing to substitute shell variables, and will ignore any `CMD` or `docker run` command line arguments.

Metadata

```
LABEL version="1.0"
```

```
LABEL "com.example.vendor"="ACME Incorporated"
LABEL com.example.label-with-value="foo"
```

```
LABEL description="This text illustrates \
that label-values can span multiple lines."
```

See also

- <https://docs.docker.com/engine/reference/builder/>

docker-compose

Basic example

```
# docker-compose.yml
version: '2'

services:
  web:
    build: .
    # build from Dockerfile
    context: ./Path
    dockerfile: Dockerfile
    ports:
      - "5000:5000"
    volumes:
      - .:/code
  redis:
    image: redis
```

Commands

```
docker-compose start
docker-compose stop
```

```
docker-compose pause
docker-compose unpause
```

```
docker-compose ps  
docker-compose up  
docker-compose down
```

Reference

Building

```
web:  
  # build from Dockerfile  
  build: .
```

```
# build from custom Dockerfile  
build:  
  context: ./dir  
  dockerfile: Dockerfile.dev
```

```
# build from image  
image: ubuntu  
image: ubuntu:14.04  
image: tutum/influxdb  
image: example-registry:4000/postgresql  
image: a4bc65fd
```

Ports

```
ports:  
  - "3000"  
  - "8000:80" # guest:host
```

```
# expose ports to linked services (not to host)  
expose: ["3000"]
```

Commands

```
# command to execute
command: bundle exec thin -p 3000
command: [bundle, exec, thin, -p, 3000]
```

```
# override the entrypoint
entrypoint: /app/start.sh
entrypoint: [php, -d, vendor/bin/phpunit]
```

Environment variables

```
# environment vars
environment:
  RACK_ENV: development
environment:
  - RACK_ENV=development
```

```
# environment vars from file
env_file: .env
env_file: [.env, .development.env]
```

Dependencies

```
# makes the `db` service available as the hostname `database`
# (implies depends_on)
links:
  - db:database
  - redis
```

```
# make sure `db` is alive before starting
depends_on:
  - db
```

Other options

```
# make this service extend another
extends:
```

```
file: common.yml # optional
service: webapp
```

```
volumes:
- /var/lib/mysql
- ./_data:/var/lib/mysql
```

Advanced features

Labels

```
services:
web:
labels:
com.example.description: "Accounting web app"
```

DNS servers

```
services:
web:
dns: 8.8.8.8
dns:
- 8.8.8.8
- 8.8.4.4
```

Devices

```
services:
web:
devices:
- "/dev/ttyUSB0:/dev/ttyUSB0"
```

External links

```
services:
web:
```

```
external_links:  
  - redis_1  
  - project_db_1:mysql
```

Hosts

```
services:  
  web:  
    extra_hosts:  
      - "somehost:192.168.1.100"
```

sevices

To view list of all the services running in swarm

```
docker service ls
```

To see all running services

```
docker stack services stack_name
```

to see all services logs

```
docker service logs stack_name service_name
```

To scale services quickly across qualified node

```
docker service scale stack_name_service_name=replicas
```

clean up

To clean or prune unused (dangling) images

```
docker image prune
```

To remove all images which are not in use containers , add - a

```
docker image prune -a
```

To prune your entire system

```
docker system prune
```

To leave swarm

```
docker swarm leave
```

To remove swarm (deletes all volume data and database info)

```
docker stack rm stack_name
```

To kill all running containers

```
docker kill $(docekr ps -q )
```

Contributor -

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