



### Glossary

<b>Build</b>	build is the process of building Docker images using a Dockerfile.
<b>Container</b>	a container is a runtime instance of a Docker image.
<b>Dockerfile</b>	a Dockerfile is a text document that contains all the commands you would normally execute manually in order to build a Docker image. Docker can build images automatically by reading the instructions from a Dockerfile.
<b>Docker Daemon</b>	the background service running on the host that manages building, running and distributing Docker containers. The daemon is the process that runs in the operating system which clients talk to.
<b>Image</b>	a Docker image is a read-only template that contains a set of instructions for creating a container.
<b>Stack</b>	a group of containers that runs together in order to create a service. Example: [wordpress] + [mySql]
<b>Volume</b>	Docker volumes are file systems mounted into a Docker containers to preserve data generated by the running container.

Author this cheat sheet has been created by TheFax

### Run containers

docker run	parameter	description
	<b>-d</b>	Run in background / detached mode
	<b>-it</b>	Interactive, tty
	<b>--rm</b>	Remove container after it stops.
	<b>-p 83:80</b>	Port mapping host:container
	<b>-v /dirHost:/dir</b>	Mount file or directories /host/dir:/container/dir
	<b>--name pluto</b>	Set container name
	<b>--restart no</b>	Restart policy: <b>no</b> : stops the container when it exit. <b>on-failure[:max-retries]</b> : Restart only if the container exits with a non-zero exit status. Optionally, limit the number of restart retries. <b>always</b> : restart the container regardless of the exit status. The container will also always start on daemon startup. <b>unless-stopped</b> : Always restart the container regardless of the exit status, except if the container was put into a stopped state.
	<b>IMAGE</b>	Image name is the LAST parameter.

### Manage containers

<b>docker start/stop CONTAINER</b>	Start or stop a container
<b>docker pause/unpause CONTAINER</b>	Pause or unpause a container



### Manage containers (cont)

<code>docker restart CONTAINER</code>	Stop and restart a container
<code>docker attach CONTAINER</code>	Connect terminal to a running container
<code>docker rename OLD_NAME NEW_NAME</code>	Rename a container
<code>docker container rm CONTAINER</code>	Remove the specified container
<code>docker rm CONTAINER</code>	
<code>docker container rm -f CONTAINER</code>	Force the removing of specified container.
<code>docker rm -f CONTAINER</code>	
<code>docker container prune</code>	Delete all stopped containers

### Manage images

<code>docker rmi IMAGE</code> , or <code>docker image rm IMAGE</code>	Remove image
<code>docker build URL</code>	Create an image from a dockerfile
<code>docker commit CONTAINER NEW_IMAGE_NAME</code>	Create an image from a container
<code>docker search TERM</code>	Search the Docker Hub for images

### Information

<code>docker stats</code>	Live data about running containers
<code>docker ps</code>	List running containers
<code>docker ps -a</code>	List ALL containers, also stopped ones
<code>docker port CONTAINER</code>	List port mapping of specified container
<code>docker image ls</code> , or <code>docker images</code>	List all locally stored images
<code>docker container ls</code>	List running containers
<code>docker container ls -a</code>	List all containers
<code>docker volume ls</code>	List volumes

### Tips :-)

Where are docker images and files?	<code>/var/lib/docker</code>
How can I refer to a container?	Via its name (set by <code>--name Pluto</code> ) or... Via its ID (example: <code>4a7f7eebae0f63178aff7eb0aa39f0627a203ab2df258c1a00b456cf20063</code> ) or... Via the first letters of its ID (example: <code>4a7f</code> )
How can I test my docker?	Try one of these commands: <code>docker run hello-world</code> <code>docker run -it --rm -d --name test -p 83:80 nginx</code>



