

Docker basics Cheat Sheet by FooFax (foobar) via cheatography.com/16755/cs/35110/



Glossary			
Build	build is the process of building Docker images using a Dockerfile.		
Container	a container is a runtime instance of a Docker image.		
Dockerfile	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.		
Docker Daemon	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.		
Image	a Docker image is a read-only template that contains a set of instructions for creating a container.		
Stack	a group of containers that runs together in order to create a service. Example: [wordpress] + [mySql]		
Volume	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 contain	ers	
docker run	parameter	descri ption
	-d	Run in background / detached mode
	-it	Interactive, tty
	rm	Remove container after it stops.
	-р <i>83:80</i>	Port mapping host:container
	-v /dirHost:/dir	Mount file or directories /host/dir:/container/dir
	name pluto	Set container name
	restart no	Restart policy: no: stops the container when it exit. on-failure[:max-retries]: Restart only if the container exits with a non-zero exit status. Optionally, limit the number of restart retries. always: restart the container regardless of the exit status. The container will also always start on daemon startup. unless-stopped: Always restart the container regardless of the exit status, except if the container was put into a stopped state.
	IMAGE	Image name is the LAST parameter.

Manage containers	
docker start/stop CONTAINER	Start or stop a container
docker pause/unpause CONTAINER	Pause or unpause a container



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

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

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

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



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