

Docker and friends Cheat Sheet by Andrew Matthews (aabs) via cheatography.com/22451/cs/4601/

Building Images		
docker build	Build a new image from the source code at PATH docker build -t myimg .	
- q	Suppress the output generated by containers	
rm	Remove intermediate containers	

- t Repository name (and optionally a tag) for the image

after a successful build

Examples:

Simplest possible build instruction: docker build .

Name image and tag as v1.5:

docker build -t myorg/myimg:1.5 .

Misc useful commands		
attach	Attach to a running container	
ср	Copy files/folders from a container's filesystem to the host path	
create	Create a new container	
exec	Run a command in a running container	
images	List images	
export	Stream the contents of a container as a tar archive	
import	Create a new filesystem image from the contents of a tarball	
inspect	Return low-level information on a container or image	

Misc useful commands (cont)		
kill	Kill a running container	
load	Load an image from a tar archive	
logs	Fetch the logs of a container	
port	Lookup the public-facing port that is NAT-ed to PRIVATE_PORT	
ps	List containers	
pull	Pull an image or a repository from a Docker registry server	
push	Push an image or a repository to a Docker registry server	
rm	Remove one or more containers	
rmi	Remove one or more images	
save	Save an image to a tar archive	
search	Search for an image on the Docker Hub	
start	Start a stopped container	
stop	Stop a running container	
top	Lookup the running processes of a container	
wait	Block until a container stops, then print its exit code	
Run docker COMMANDhelp for help on the command.		

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docker run	starts a process with its own file system, its own networking, and its own isolated process tree docker run -itP image	
name	name the container docker run name=somename org	
-t	terminal interface	
-i	interactive session	
-d	daemon Mode	
- P	publish all exposed ports	
-p	<pre>expose specific port -p ip:hostport:containerport</pre>	
rm	remove intermediate images	
- V	bind mount a volume -v /host:/container	
Examples:		
run an interactive session: sudo docker run -P		
name=somename image		

Running Docker

sudo docker run -P -name=somename image
run container in background, on port 80:
sudo docker run --d -v
/etc/appdata:/data -p
0.0.0.0:80:8080 --rm nginx

Docker Compose

TBC

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Dockerfiles (for creating images)

FROM set base image for this image

FROM <image>:<tag>

MAINTA The author of the image

MAINTAINER <name> TNER

RUN execute commands in new layer

> RUN <command> RUN ["executable",

"param1", ...]

provide default for an executing CMD

container

["executable", "param1", ...]

LABEL add metadata to image

LABEL <key>=<value>

<key>=<value>

EXPOSE listen on the network ports

EXPOSE <port> [<port>...]

set the environment variables ENV

> ENV <key> <value> ENV <key>=<value>

<key>=<value>

ADD /C copies new files from <src> and

OPY?? adds them to the container at

<dest>.

ADD <src>... <dest>

ENTRYP configure container to run as an

executable

ENTRYPOINT ["exe",

"arg"...]

Dockerfiles (for creating images) (cont)

VOLUME create externally mounted volumes

VOLUME ["/data"]

USER sets the user name or UID to use

when running the image

USER<user>

WORKDIR sets working dir for any RUN, CMD,

ENTRYPOINT, COPY and ADD

instructions:

WORKDIR /path/to/workdir

ONBUILD adds a trigger instruction for

execution when image is used as base of another build

ONBUILD [INSTRUCTION]

Check out the Manual Page for more detail.



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