

Building Images	Misc useful commands (cont)	Dockerfiles (for creating images) (cont)
<p><code>docker build</code> Build a new image from the source code at PATH</p> <p><code>docker build -t myimg</code></p> <p><code>-q</code> Suppress the output generated by containers</p> <p><code>--rm</code> Remove intermediate containers after a successful build</p> <p><code>-t</code> Repository name (and optionally a tag) for the image</p>	<p><code>top</code> Lookup the running processes of a container</p> <p><code>-wait</code> Block until a container stops, then print its exit code</p> <p>Run <code>docker COMMAND --help</code> for help on the command.</p>	<p><code>EXPOSE</code> listen on the network ports</p> <p><code>EXPOSE <port> [<port>]</code></p> <p><code>ENV</code> set the environment variables</p> <p><code>ENV <key> <value></code></p> <p><code>ENV <key>= <value> <key>= <value></code></p> <p><code>ADD /COPY??</code> copies new files from <src> to the container at <dest></p> <p><code>ADD <src>... <dest></code></p> <p><code>ENTRYPOINT</code> configure container to run as executable</p> <p><code>ENTRYPOINT ["executable", "argument"]</code></p> <p><code>VOLUME</code> create externally mounted volumes</p> <p><code>VOLUME ["/data"]</code></p> <p><code>USER</code> sets the user name or UID to use when running the image</p> <p><code>USER<user></code></p> <p><code>WORKDIR</code> sets working dir for any RUN, CMD, ENTRYPOINT, COPY and ADD instructions</p> <p><code>WORKDIR /path/ to/ workingdir</code></p> <p><code>ONBUILD</code> adds a trigger instruction for execution when image is used as base image for another build</p> <p><code>ONBUILD [INSTRUCTION]</code></p>
<p>Examples:</p> <p>Simplest possible build instruction:</p> <pre>docker build .</pre> <p>Name image and tag as v1.5:</p> <pre>docker build -t myorg/myimg:1.5 .</pre>	<h3>Running Docker</h3> <p><code>docker run</code> starts a process with its own file system, its own networking, and its own isolated process tree</p> <pre>docker run -itP image</pre> <p><code>--name</code> name the container</p> <pre>docker run --name =some name org</pre> <p><code>-t</code> terminal interface</p> <p><code>-i</code> interactive session</p> <p><code>-d</code> daemon Mode</p> <p><code>-P</code> publish all exposed ports</p> <p><code>-p</code> expose specific port</p> <pre>-p ip:hostport:containerport</pre> <p><code>--rm</code> remove intermediate images</p> <p><code>-v</code> bind mount a volume</p> <pre>-v /host:/container</pre>	<p>Check out the Manual Page for more detail.</p>
	<p>Examples:</p> <p>run an interactive session:</p> <pre>sudo docker run -P --name =some name image</pre> <p>run container in background, on port 80:</p> <pre>sudo docker run --d -v /etc/appdata:/data -p 0.0.0.0:80:8080 --rm nginx</pre>	
	<h3>Docker Compose</h3> <p>TBC</p>	
	<h3>Dockerfiles (for creating images)</h3>	

attach	Attach to a running container
cp	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
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

FROM	set base image for this image FROM <image>:<tag>
MAINTAINER	The author of the image MAINTAINER <name>
RUN	execute commands in new layer RUN <command> RUN ["executable", "parameter", ...]
CMD	provide default for an executing container CMD ["executable", "parameter", ...]
LABEL	add metadata to image LABEL <key>=<value> <key>=<value>



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