

devCodeCamp Docker Commands (Inclusive) Cheat Sheet by Cash (CashM) via cheatography.com/123081/cs/30565/

Basic Docker commands	
dockerhelp	Displays basic help options and commands
docker <command/> help	Display detailed help for a specific command
docker ps	List of "live" containers
docker ps -a/-all	List of all containers
docker version	Display docker versioning

Container commands	
docker run <image/>	Builds a docker image from the Docker file
docker run [options] <image:tag@dige- st> <command/> <arguments></arguments></image:tag@dige- 	Full syntax of docker run command
docker create <image/> : <tag></tag>	Creates a container using the image
docker start <container></container>	Starts a container
docker stop <container></container>	Stops a container in an orderly manner
docker kill <container></container>	Immediately stops a running container
docker restart <container></container>	Restarts a stopped container
docker rm <container></container>	Removes a stopped container
docker port <container></container>	Lists the port mapping of a "running" container
<pre><container> can be replaced with the containers unique ID or unique NAME</container></pre>	

Image Commands	
docker images	List images
docker run <image/> :<- tag>	Builds a new container using the image
docker build <image/> :<- tag>	Builds a docker image from the Docker file
docker rmi <image/> :<- tag>	Remove an image (not attached to a container)
docker save <image/> :<- tag>	Saves an image to a tar archive
docker push <image/> :<- tag>	Pushes the image to Docker Hub

<tag> is optional and will default to latest

Image Commands (cont)	
docker pull <image/> : <tag></tag>	Pulls the image from Docker Hub
<pre><image/> can be replaced with the images unique ID or or unique NAME <tag> is optional and will default to latest</tag></pre>	
Miscellaneous Commands	

Miscellaneous Commands	
docker exec -it <container> <entrypoint></entrypoint></container>	Executes the command or terminal of a running container
docker inspect <image container="" or=""/>	Returns low level information on an image or a container
docker attach <container></container>	Attach to a running container

Option Keywords	
-i,interactive	Keep STDIN open even if not attached
-t,tty	Allocate a psuedo-TTY
-it	Combines the -i and the -t options (interactive response)
-a,attach	attach
-d,detach	Run in background
-e,env	Set ENV variables
exec	Run a new command in a container (See Misc)
<pre>-p, -publish <host_port>>: <container_port></container_port></host_port></pre>	Port mapping (Host to container)
-v,volume <source/> : <ta- rget></ta- 	Mount files or directories (terse)
-m,mount	Mount files or directores (verbose)

ga	
name-	Assigns a name to a container: docker runname= <n-< td=""></n-<>
= <n-< td=""><td>ame> <image/></td></n-<>	ame> <image/>
ame>	
-a,all	Adds the option of "all" to the container list: docker ps -a
sh	Entrypoint command for a shell in a container: docker run
	-it <image/> sh or docker exec -it <container> sh</container>



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Volume Commands	
docker volume Is	List volumes
docker volume inspect	Inspect a volume
docker volume create <volume></volume>	Create a volume
docker volume rm <volume></volume>	Removes a volume
<volume> can be replaced with the volumes unique ID or unique</volume>	

<volume> can be replaced with the volumes unique $\ensuremath{\mathbf{ID}}$ or unique $\ensuremath{\mathbf{NAME}}$

Basic Dockerfile Dev Structure
From <image/>
WORKDIR <path></path>
[ENV <key>=<value>]</value></key>
COPY <src> <target></target></src>
RUN command param1 param2
CMD ["executable", "param1", "param2",]

Dockerfile (for creating	g images)
FROM <image/> [AS <name>]</name>	Sets the base image for this layered imaged
RUN <command/>	(Shell form) Executes commands in a new layer
RUN ["executable", "param1", "par- am2"]	(Exec form) Executes commands in a new layer
CMD ["executable", "param1", "par- am2"]	(Exec form) Sets default executable as the ENTRYPOINT
CMD ["param1", "- param2"]	(adds default parameters to non-specified ENTRYPOINT)
CMD command param1 param2	(shell form)
LABEL <key>=<va- lue> <key>=<va- lue></va- </key></va- </key>	Adds metadata to an image
EXPOSE <port> [<ports>/<protocol>]</protocol></ports></port>	Specifys the port(s) for the container to listen on
ENV <key>=<value< td=""><td>Sets an environment variable for all subsequent instructions</td></value<></key>	Sets an environment variable for all subsequent instructions
COPY [chown=- <usr>:<group>] <sr- c> <dest></dest></sr- </group></usr>	Copies files or directorys from <src> and adds them to the container at <dest></dest></src>
VOLUME ["/data"]	(Can be an array) Creates a mount point for files or directories
USER <user>[:<- group>]</user>	Sets the user name and optionally the user group to use when running image
WORKDIR	Sets the working directory
ARG <name>=<v- alue></v- </name>	ARG is the only command that may precede the FROM command. It sets support variables for the FROM

