Cheatography

Docker Tools and Terms Cheat Sheet

by achang via cheatography.com/39709/cs/12310/

Container Tools

`docker ps`	lists all currently running containers
`docker ps -a`	lists all containers (including stopped ones)
`docker logs CONTAI NER(S)`	shows the output of the given container(s)
`docker rm CONTAI NER(S)`	removes a container(s) - including any local data changes
`docker rm -f CONTAI NER(S)`	same as `docker rm` except also force stops a container(s)
`docker start CONTAI NER(S)`	attempts to start a stopped container(s)
`docker stop CONTAI NER(S)`	attempts to stop a running container(s)
`docker restart CONTAI NER(S)`	stops and then starts the specified container(s)
`docker cp SRC DEST`	copies files to/from a specific container to a local location container location format: `CONTAI NER :PA TH_ ON_ CON TAINER`
`docker exec -it CONTAINER bash`	starts a bash terminal session in the CONTAINER specified

Aliases

`docker _build`	`docker _co mpose` followed by a `docker _bu ild_js`
`docker _bu ild_ js`	builds front-end components using `yarn ru n compile`
`docker _co mpos e`	installs dependencies as defined in `compos er.lock` - does not update
`docker _start`	runs all containers as defined in `docker -c o mpo se.yml` with the default command as defined by the image
`dockerize`	logs in to aws in order to pull new images
`src_sync`	copies source code into all running containers and makes sure container source is up to date

Aliases (cont)

`docker _ca che _clear`	runs `Cache o mmand` in remove cacl
`docker _ca che _fo rce _clear`	`rm -rf ap`
`docker _ru n_s ing le_test TEST_F ILE _LO CATION`	runs a single test file
`cmd`	starts a new using the sc image and s interactive b session

Terms

Image	A snapshot of a lightweight filesystem in order to run specific tasks
Container	An instantiation of an environment created from a specific image
Filecabinet	A file mount that is shared across all containers

Troubleshooting

`docker ps -a`	use to se which container not startir linking er occur
`docker logs CONTAINER`	use to se specific lo and error a contain trouble sh bad exit c
`src_sync`	use if logs reveal tha files cann found
`docker _bu ild /bu ild _js /co mpose`	use if par ters/depe ncies see be incorre
`docker rm CONTAINER`	use if a fil corrupt in container NOTE: D NOT REMOVE `ata` CONTAIN AS THEY WILL TAK LONG TI TO DOWNLO
`docker _ca che _cl ear /do cke r_c ach e_f - orc e_clear`	use if anr tions or o cached a seem to b corrupt/n updating

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Docker ps columns	
NAMES	Interchangeable with `CONTAINER ID` - used to reference a specific container
CONTAINER ID	Interchangeable with `NAMES` - used to reference a specific container
IMAGE	Image that the container environment is running on
COMMAND	Command(s) that the container is runs when started
CREATED	Date when container was first created
STATUS	Current status of container - will also display exit codes
PORTS	Displays external -> internal port mapping and protocal

xdebug - docker native

`sudo ifconfig lo0 alias 10.254.25 4.254`

`docker exec -it webserver bash`

`vi /etc/p hp.d /x deb ug.ini`

press `i` to be able to edit, arrows to navigate

set `xdebug.re mot e_c onn ect _back=0`

set `xdebug.re mot e_h ost =10.25 4.2 54.254`

set `xdebug.re mot e_a uto start=1`

to save and quit from vi:

press `esc`

type `:wq`

press `enter`

`exit` to get out of the container

run `docker restart webserver` in order to have the new config values take place

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