

# Cheatsheet Docker

## Starter kit

‘docker run --rm hello-world’ Test docker (1.85kB)  
‘docker run --rm ubuntu bash’ . Run Ubuntu and attach with bash  
‘docker images’ ..... Downloaded images  
‘docker ps’ ..... Running containers  
‘docker ps -a’ ... Running and stopped containers  
‘docker build -t mynode .’ ..... Build an image<sup>1</sup>

## Useful ‘docker run’ params

‘--rm’ ..... Remove container after using it  
‘-v /home/myuser:/myuser’ . Bind local directory to container  
‘-v myvolume:/path’ ..... Bind docker volume to container  
‘-it’ ..... Attach shell (interactive, tty)  
‘-w /mypath’ ..... Working dir (‘cd /mypath’)  
‘-p 8080:80’ ..... Bind local port 8080 to 80 of container  
‘--name container1’ ..... Name a container  
‘--hostname host’ ..... Change the hostname  
‘--cpuset-cpus="0-1,3"' ..... Use only these cpus  
‘--memory 1G’ ..... Limit memory  
‘-u 1000’ ..... run with this user  
‘-u 0’ ..... run with this user  
‘-u root’ ..... run with this user  
‘-e VAR’ ..... Export your variable VAR  
‘-e VAR=content’ ... Create a variable VAR with content  
‘--detach=true’ Run the container in background  
‘--restart=alway’ ... Restart the container if your computer restarts

## Other docker commands

‘docker cp ~/Downloads/db.sql proj\_db\_1:/’ ..... Copy a file into a container<sup>2</sup>  
‘docker volume ls’ ..... List volumes  
‘docker volume rm volumename’ ..... Remove volumename  
‘docker rmi ubuntu’ ..... Remove an image  
‘docker rm 87b2bdf99cbe’ . Remove container (id)  
‘docker rm mycontainer’ ..... Remove container (name)  
‘docker exec -it 87b2bdf99cbe bash’ ..... Execute another command in a running container (id)  
‘docker exec -it mycontainer bash’ ..... Execute another command in a running container (name)

## docker-compose

‘doc’ is an alias to ‘docker-compose’  
‘doc build’ ..... Build images  
‘doc pull’ ..... Pull images  
‘doc up app’ ..... Start a container (foreground)  
‘doc start app’ ... Start a container (background)  
‘doc stop app’ ..... Stop a running container (foreground or background)  
‘doc exec db bash’ ..... Attach to (running) db container  
‘doc run --rm db app bash’ ... Run the command bash in app  
‘doc exec -u postgres db bash’ ..... Attach to DB container using user  
‘doc exec -u postgres db psql’ ..... Attach to DB console  
‘doc run --rm db bash -c "psql -U postgres -h db"' ..... Run and attach DB console

## Important files

~/ .docker/config.json  
docker-compose.yml

## Links and information

<https://hub.docker.com/>  
<https://docs.docker.com/compose/compose-file/>  
<https://dmitryrck.com/docker-nodejs/>

Try to use ‘--rm’.

Container means running image.

A container is another machine; change the server to receive connection from outside:

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‘rails server -b 0.0.0.0 -p 3000’
```

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Created by Dmitry Rocha, 2018  
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<sup>1</sup> The last parameter is a period (.)

<sup>2</sup> It won’t keep the file if restart the container

<sup>3</sup> <https://www.meetup.com/AucklandNodeJs/>