Cheatography

Docker User Guide Cheat Sheet

by angonyfox via cheatography.com/62683/cs/16053/

Docker Daemon

`sudo systemctl start docker`	Start Docker Daemon
`sudo systemctl stop docker`	Stop Docker Daemon
`sudo systemctl restart docker`	Restart Docker Daemon
`sudo systemctl status docker`	Check if Docker Daemon is running

If you do not have systemctl, use the service command "`sudo service docker [start|stop|status|restart]`"

Docker Common Command Line

`docker version`	Show docker client and server version
`docker info`	Show docker server information
`docker images`	List of installed docker images
`docker stats`	Resource Utilication Monitoring
`docker ps [-a]` `docker container ls`	List of containers Option -a: all container

Running container

`nvidia-docker run [OPTIONS] IMAGE[:TAG] [COMMAND] [ARG...]`	Run container from a given image
Options	
--name	container name
-i	Interactive session
-t	terminal TTY
--rm	remove when exited
-p H:C	Exposes the port C of the container to the port H of the host
-P	expose all port
-v H:C	Mount the host path H at the path C in the container
-w	set working directory in container
-m	memory limit
--cpuset-cpus	limit cpus to run
--add-host	custom host:ip setting
--privileged	open kernal functions

Enables GPU selection (with NV_GPU option)

NV_GPU=1,3 `nvidia-docker run --rm nvidia/caffe nvidia-smi`

Multi GPU Selection

Select with GPU Topology with NVLINK

`nvidia-docker run --rm nvidia/cuda:8.0-cudnn6-devel-ubuntu16.04 nvidia-smi topo -m`

Managing Container

`docker logs {CONTAINERNAME}`	Get the logs of the container
`docker kill {CONTAINERNAME}`	Kill the container
`docker inspect {CONTAINERNAME}`	Inspect the details of a container
`docker start {CONTAINERNAME}`	start container
`docker stop {CONTAINERNAME}`	stop container
`docker rm [-f] {CONTAINERNAME}`	Remove the container Option: -f: Force removal of the container
`docker rm $(docker ps -a -f status=exited -q)`	Removing all exited containers
`docker rm` `` `docker ps - a -q` ``	Removing all stopped containers

Managing Image

`docker search {IMAGENAME}`	Search image
`docker pull {IMAGENAME}`	Pull an image
`docker rmi {IMAGENAME}`	Remove image
`docker rmi $(docker images -a -q)`	Remove all imges
`docker stop $(docker ps -a -q) && docker rm $(docker ps -a -q)`	Stop and Remove all image

NVIDIA Docker Repository

`docker login nvcr.io`	Login to a Repository Username: $oauthtoken Password: {API Token}
`docker logout nvcr.io`	Logout