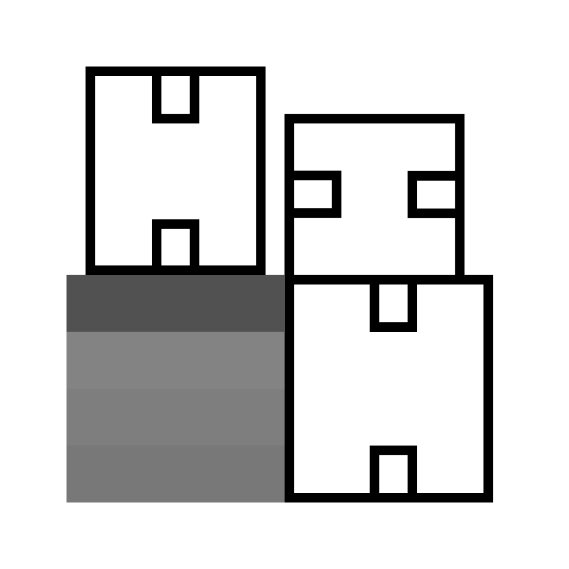
**Docker Cheat-Sheet**

**Commands for Containers**

* Start and run a new container

docker run <image name>

* Reattach to a container

docker attach <container ID or name>

* Forcibly stop a container

docker stop <container ID or name>

* Restart a previously stopped container

docker start <container ID or name>

* Remove a container

docker rm <container ID or name>

* Run a command in an existing container

docker exec <container ID or name> <command>

* List running containers

docker container list

*docker ps* ***(deprecated)***

* List all containers (running and stopped)

Detaching from a container

Ctrl + P then Ctrl + Q

docker container list -a

*docker ps -a* **(deprecated)**

* Get the logs of a container

docker logs <container ID or name>

* Get detailed information about a container

docker container inspect <container ID or name>

**Ports and volumes**

* Forward a source port from your container to a destination port on your Docker host

docker run -p <source port>:<destination port> <image name>

* Automatically forward all exposed ports from a container to destination ports picked by Docker

docker run -P <image name>

* Bind mount a source directory (source MUST be an absolute path) on your host to a target path in a container

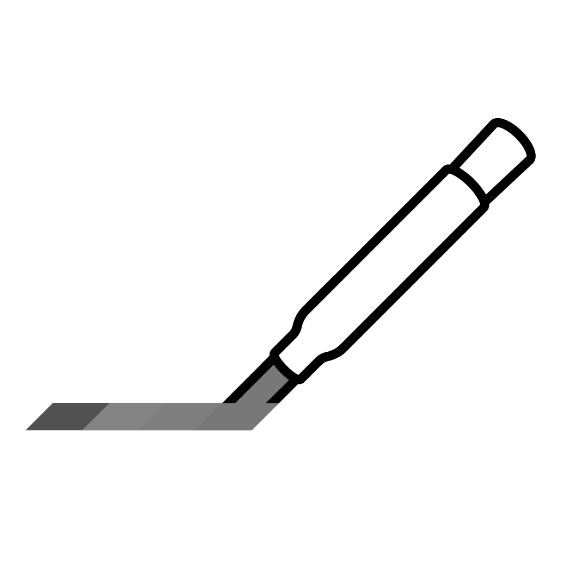
docker run --mount type=bind,src=<source dir>,target=<target path> <image name>

docker run -v <source dir>:<target path> <image name> **(deprecated)**

* Attach a named volume (source MUST NOT be an absolute path) to a target path in your container

docker run --mound src=<named volume>,target=<target path> <image name>

docker run -v <named volume>:<target path> <image name> **(deprecated)**

**Commands for Images**

* Download an image from a registry

docker pull <image name>

* Remove an image from the local disk

docker image rm <image ID>

*docker rmi <image ID>* **(deprecated)**

* List all locally available images

docker image list

*docker images* **(deprecated)**

* Commit all changes of a container to a new image

docker commit <container ID or name> <tag>

* View the history of an image

docker image history <image ID or tag>

* Upload an image to a registry

docker push <image ID or name>

* Tag an image

docker tag <container ID or name> <tag>

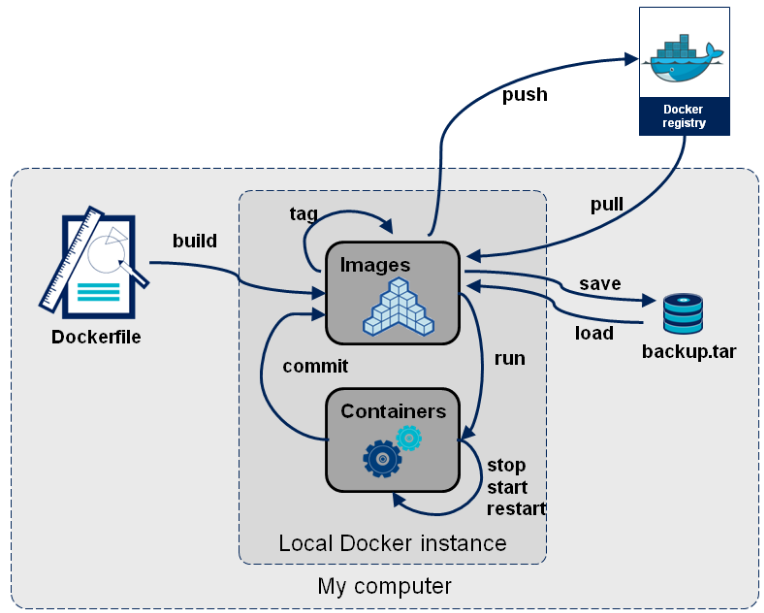
* Build an image from a Dockerfile

docker build <path to build context>

**Tagging an image for pushing to a registry**

docker tag myimage myregistryhost:port/repository/myimage:release1.0

*port is optional on most registry but might be relevant (e.g. in Artifactory)*



Docker Container Lifecycle