Reminder!

IMAGE (instance of filesystem) CONTAINER (equivalent to VM)

IMAGE → CONTAINER

Useful Docker Commands

Remember.

You can get all commands by typing:

docker

Then for each command you can get help by typing:

```
docker <cmd> --help
```

Example: docker start --help

List of commands:

#pulls an image, creates a container and runs it

docker run <image name>

docker run <image name> <command>

list containers

docker ps

docker ps --all // all the containers ever run

docker ps -q //only ids

#create containers from existing image

docker create <image name> <command>// creates a container

#manage created containers

docker start <container id> // starts a container

docker start -a <container id> //starts a container but shows the output

docker stop <container id> ... //stops containers (polite) after 10s it will kill it

docker kill <container id> .. //kills containers

#clean docker

docker system prune // deletes unusefull things containers ect

docker rm <container1> ... <containerN> //delete one or more containers use either ids or names

docker rm `docker ps -a -q` //deletes all containers

#interact with container

docker logs <container id> //lists all logs from one container

docker exec -it <container id> <command> // executes a command inside a docker container with interactive terminal

docker run -it <image name> <command or sh> // creates a new container and runs a command ineteractive

Docker Compose

Tool to manage docker architectures

You need a file named by default: docker-compose.yml

docker-compose up /Create and start containers. Override file name by using -f <filename>. Check --help

docker-compose up -d //detached, no output from containers

docker-compose down //Stop and remove containers, networks, images, and volumes

docker-compose start //start the services (containers)

docker-compose stop //stops the services (containers)
Requirements for both projects
Install Docker and Docker-compose.
https://docs.docker.com/get-docker/
https://docs.docker.com/compose/install/
Preferably use a Virtual box with linux installed for your projects. For example VirtualBox. Then install Docker inside VirtualBox