Docker Cheat Sheet

You will find most of the commands you need in this document. Just below the table there's a link to a more complete Cheat Sheet.

`docker **pull** mysql:latest`	Pulls an image from the Docker Registry
docker **images**	List all images
docker inspect name OR id	Info about a container
Start and run a container	

`docker **run** --name a_name IMAGE`
example:
`docker run --name a_name --env MYSQL_ROOT_PASSWORD=secret --detach mysql:8.0.28`
Some common flags:
`-d --deteach → run detached (will not block the terminal)`
`--rm → Remove container once it stops`
`-p --publish → Publish a containers port(s) to the host`	

Manage Containers	
`docker **ps**` `docker **ps --all**`	List all running containers List all containers, including stopped containers
`docker **stop** a_name` `docker **stop** e4a…`	Stop running container using its name Stop a running container using its id. You usually only need the first 3-4 character of the id
`docker **restart** a_name` `docker **restart** e4a…`	Restart container using its name Restart a container using its id
`docker **exec** -it a_name bash`	Access the running container in an interactive terminal (-it) and get a bash shell in the container
Logging/debug	
`docker **logs** a_name`	Fetches the logs from the specified container. A must, if something does not work as expected
`docker **logs** -follow a_name`	Gets loginformation (debug statements) live
Clean up	
`docker **rm** a_name` `docker **rm -f** a_name`	Removes a stopped container Removes a container, even if running (-f = force)
`docker **rmi** f1aa..`	Removes an image *After some time with docker you should use docker images to see whether you have unused images, and the space they take up.*
`docker **system prune**`	Remove all **unused** Docker Objects (use with care) *Do this from time to time, after having played around with docker to free up resources*
`docker **system df**`	List used space

You can find a more complete Cheat Sheet here: https://dockerlabs.collabnix.com/docker/cheatsheet/

Docker Compose Cheat Sheet

The following is probably the only commands you will need for docker-compose this semester

All commands below must be executed in the root of the project (where docker-compose.yml) is located

`docker-compose up --build -d`	Build and start containers defined in a docker-compose.yml file
`docker compose stop` `docker ps -a`	Stop the containers Verify that the containers was stopped
`docker compose start` `docker ps`	Restart the containers Verify that the containers is running

Important: Remember on your vm you call docker compose like this **`docker compose`** not **`docker-compose`** `(no hyphen between the two words)`