

Cheat sheets and checklists

- Student name: NAME
- GitHub repo: URL

Basic commands

Task	Command
Change directory	<code>cd DIRECTORY</code>
List files	<code>ls -l</code>
Create directory	<code>mkdir DIRECTORY</code>
Create empty file	<code>touch FILE</code>
Copy file	<code>cp FILE DEST</code>
Move file	<code>mv FILE DEST</code>

Docker commands

Task	Command
List all containers	<code>docker ps -a</code>
List all images	<code>docker images</code>
Stop a container	<code>docker stop CONTAINER</code>
Remove a container	<code>docker rm CONTAINER</code>

Git workflow

Simple workflow for a personal project without other contributors:

Task	Command
Current project status	<code>git status</code>
Select files to be committed	<code>git add FILE...</code>
Commit changes to local repository	<code>git commit -m 'MESSAGE'</code>
Push local changes to remote repository	<code>git push</code>
Pull changes from remote repository to local	<code>git pull</code>

Checklist network configuration

1. Is the IP address correct? `ip a`
2. Is the router/default gateway correct? `ip r -n`

3. Is a DNS-server available? `cat /etc/resolv.conf`

Labo 1 Docker

Task	Command
Change directory	<code>cd .\resources\02-dockerlab\</code>
Start Portainer Container	<code>docker compose -f .\docker-compose.portainer.yml up -d</code>
Build Docker Image	<code>docker build -t webapp .</code>
Run Docker Image	<code>docker run -d -p 3000:3000 --name webapp_container webapp</code>
Fetch Animal Data (GET)	<code>curl http://localhost:3000/animals</code>
Add Animal Data (POST)	<code>curl -X POST -H "Content-Type: application/json" -d '{"name":"Lion","age":4}' http://localhost:3000/animals</code>
Remove Docker Container	<code>docker rm webapp_container</code>
Start Webapp and Database	<code>docker compose up -d</code>
Stop Docker Container	<code>docker stop webapp_container</code>
Update .gitignore	<code>echo "dockerlab/webapp/database" >> .gitignore</code>
Copy Docker Compose File	<code>cp docker-compose.yml docker-compose-sqlite.yml</code>
Run Tests	<code>docker compose run test</code>