cheat-sheet.md 2024-10-21

# Cheat sheets and checklists

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- GitHub repo: https://github.com/HOGENT-MLOps/mlops-2425-xvanderlinden

#### **Basic commands**

Task	Command
Change directory	cd DIRECTORY
List files	ls -1
Create directory	mkdir DIRECTORY
Create empty file	touch FILE
Copy file	cp FILE DEST
Move file	mv FILE DEST

#### Docker commands

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

#### Git workflow

Simple workflow for a personal project without other contributors:

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

## Checklist network configuration

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

cheat-sheet.md 2024-10-21

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

## Labo 1 Docker

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

# Labo 2 CI/CD

Task	Command
Set global username	git configglobal user.name "Your Name"
Set global email	git configglobal user.email "Your@Name.com"
Check Git configuration	git configgloballist
Initialize a Git repository	git init
Add all files to staging	git add .
Commit with a message	git commit -m "Your commit message"

cheat-sheet.md 2024-10-21

Task	Command
Push to the main branch	git push origin main
Clone a repository	git clone <repository-url></repository-url>
Set remote origin	git remote add origin <repository-url></repository-url>
Install project dependencies	yarn install
Run linter	yarn lint
Run tests	yarn test
Create a Docker image	docker build -t <image-name> .</image-name>
Run a Docker container	docker run -p 3000:3000 <image-name></image-name>
Push Docker image to Docker Hub	docker push <dockerhub-username>/<image-name></image-name></dockerhub-username>
Pull Docker image from Docker Hub	docker pull <dockerhub-username>/<image-name></image-name></dockerhub-username>