

# Docker Workshops

## Resources

- Problemen [tuur@iswleuven.be](mailto:tuur@iswleuven.be)
- [Docker website](#)
- [Download Docker](#)
  - [Windows](#) Niet zo stabiel, dus best een Linux VM gebruiken als je dat hebt
  - [Mac](#)
  - We hebben ook USB sticks
- Installatie op Linux
  - [Instructies op de Docker website](#)
  - Ofwel met dit scriptje in de command line:  
`curl -fsSL get.docker.com -o get-docker.sh && sh get-docker.sh`

## Documenten



Docker Intro.pptx



Intro to Docker -...aj 2017 - JAK.pdf

## Commando's

`docker images`

`docker container ls`

`docker ps`

`docker ps -aq`

`docker run hello-world`

`docker run ubuntu echo 'Hello World!'`

`docker run -it ubuntu bash`

Dockerfile:

```
FROM ubuntu
RUN echo 'Setting up...'
```

`docker build .`

`docker build . -t demo:ubuntu`

```
docker run demo:ubuntu
```

Dockerfile:

```
FROM ubuntu
RUN echo 'Setting up...'
RUN apt update -y && apt upgrade -y
RUN apt install -y cowsay
ENV PATH "$PATH:/usr/games"
RUN echo 'Done.'
```

```
docker build . -t demo:cow
```

```
docker run demo:cow cowsay Hallo
```

Dockerfile:

```
FROM ubuntu

RUN echo 'Setting up...'

RUN apt update -y && apt upgrade -y

RUN apt install -y cowsay

ENV PATH "$PATH:/usr/games"

COPY say.sh /root/say.sh

RUN echo 'Done.'
```

say.sh:

```
#!/bin/sh
cowsay Hallo
```

```
chmod +x say.sh
```

```
docker build . -t demo:cow-script
```

```
docker run demo:cow-script '/root/say.sh'
```

```
mkdir html && cd html
```

```
nano index.html
```

Dockerfile:

```
FROM nginx:alpine
RUN echo 'Setting up...'
COPY html /usr/share/nginx/html
RUN echo 'Done.'
```

```
docker run -p 8080:80 demo:website
```

```
-> localhost:8080
```

```
docker run -d -p 8080:80 demo:website
```

```
docker ps
```