Docker something

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Gliederung

Wiso, Weshalb, Warum?

- hier motivation und coole usecases
- independant entwicklungs umgebung

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Wer ist Moby Dock?



Was ist Docker?



Wichtige Begriffe

Docker Container Image Dockerfile Docker Compose Docker Hub Docker Desktop

Hello World

- ► Wechsel zu cmd
- docker –help
- docker run hello-world
- ▶ docker run −help

Basic commands

- docker run
- ▶ docker ps / docker ps -a

Dockerfile

- ► FROM, CMD & Entrypoint, RUN, COPY, ARG
- Layer

Dockerfile



Figure:

Python bsp

```
# Exec form
CMD ["echo", "Hello World."]

#shell form
CMD echo Hello Students
```

Volumes



React

```
# Exec form
CMD ["echo", "Hello World."]

#shell form
CMD echo Hello Students
```

Multistage builds



React - Multistage

```
# Exec form

CMD ["echo", "Hello World."]

#shell form

CMD echo Hello Students
```

Dockerfile Best practices

- ► RUN commands
- Order of COPY
- Volumes
- ► Multistage

Docker Compose

- ► Vorteile
- UseCases

Docker Compose zu Python

```
# Exec form

CMD ["echo", "Hello World."]

#shell form

CMD echo Hello Students
```

Docker Compose Webapp

```
# Exec form
CMD ["echo", "Hello World."]

#shell form
CMD echo Hello Students
```

important Commands

- docker run
- docker build
- docker push, pull
- ▶ docker ps -a
- docker rm / rmi
- **•** ...

Coole Quellen und so weiter

