

Hello, I'm Emily





Crate.io is hiring!

Technical writers

Product managers

Engineers: mobile, frontend, backend, infra

https://crate.io/jobs/

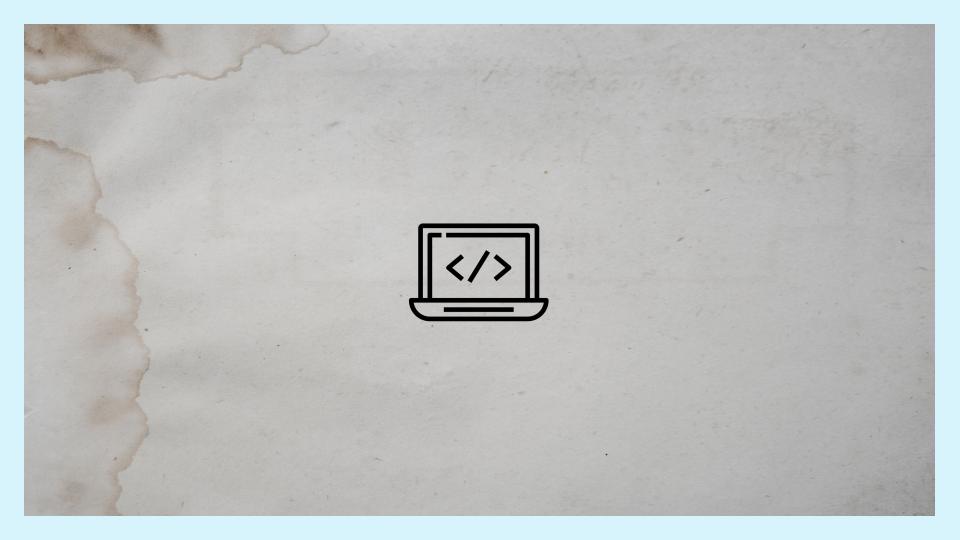


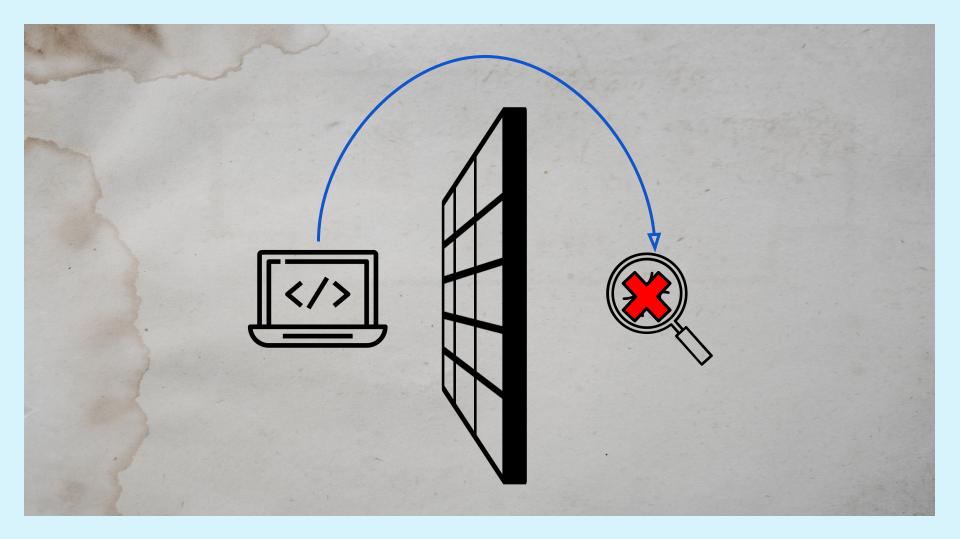
Agenda 🙀

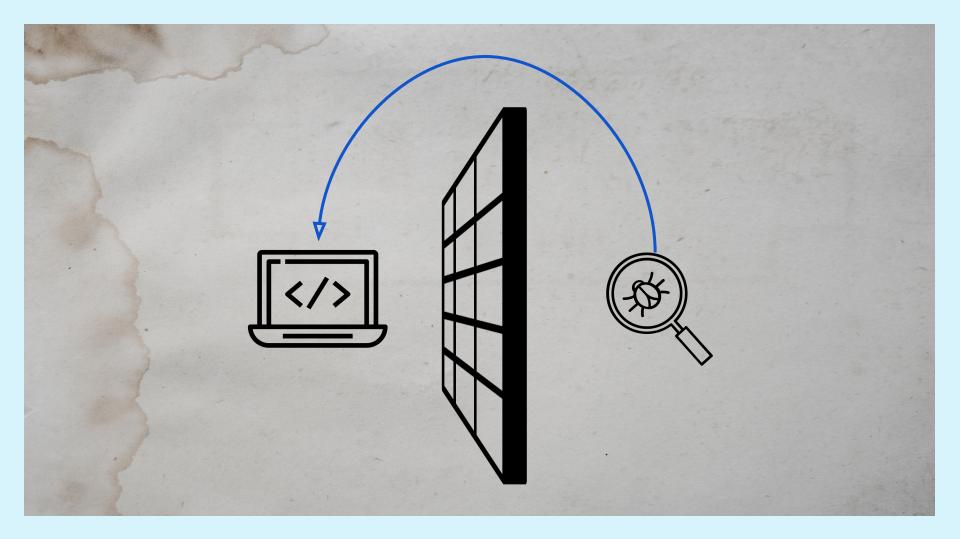
- A short history lesson
- DevOps beyond the buzzwords
- How to start DevOps-ing

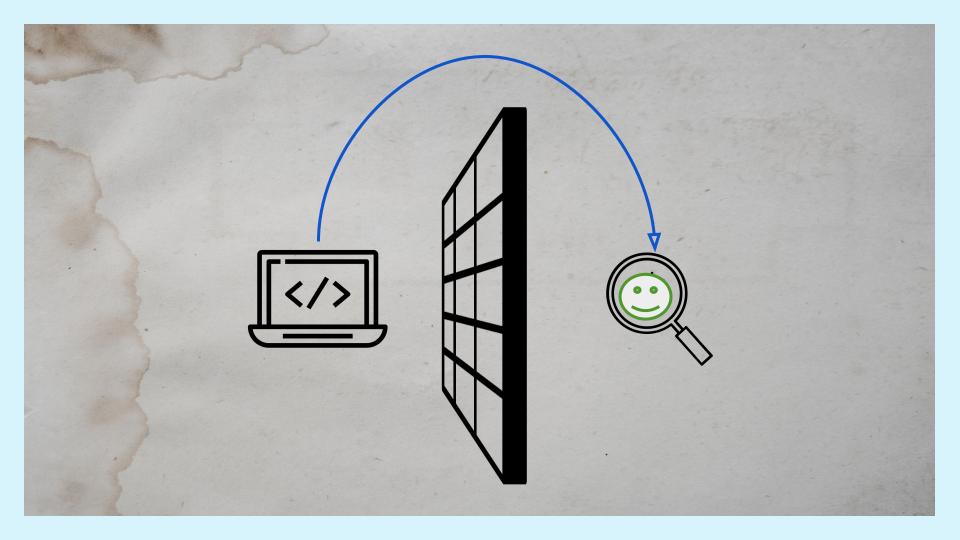


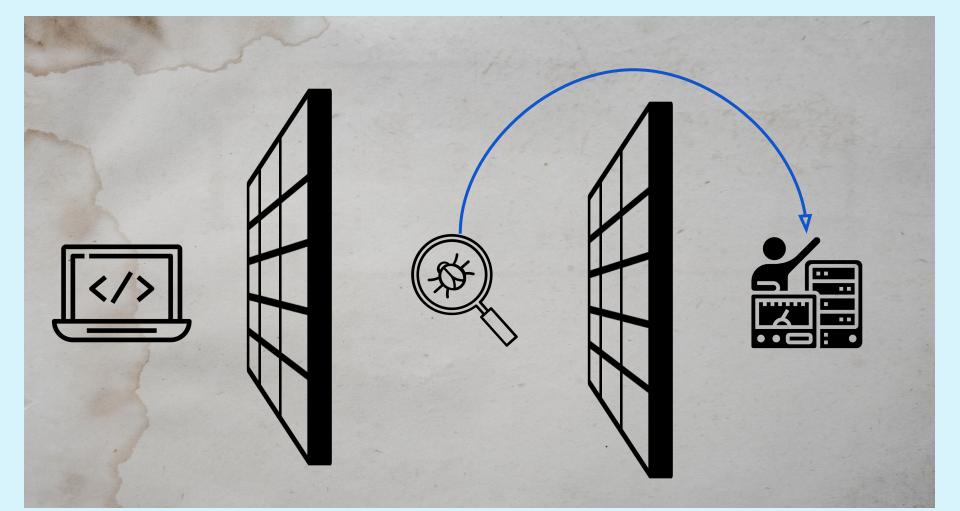
Ye olde software delivery practices

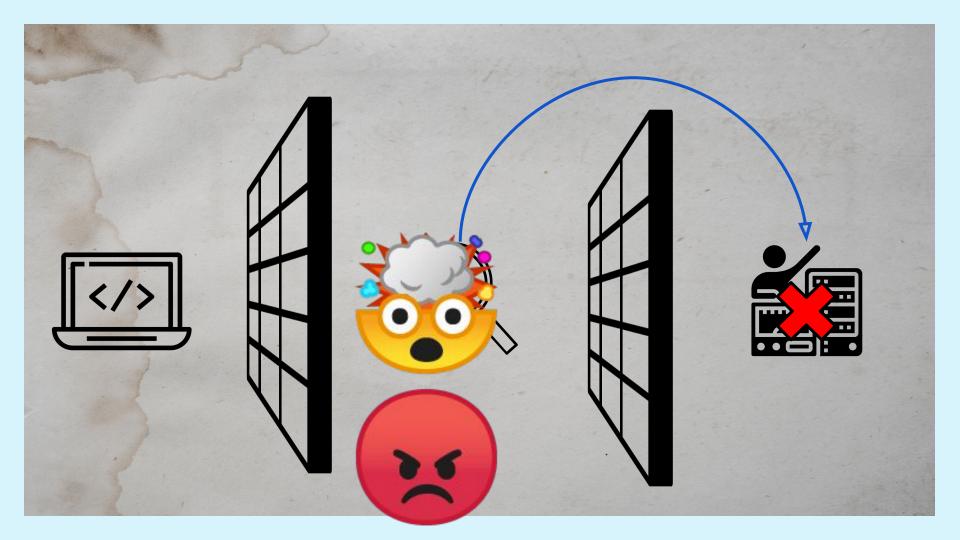




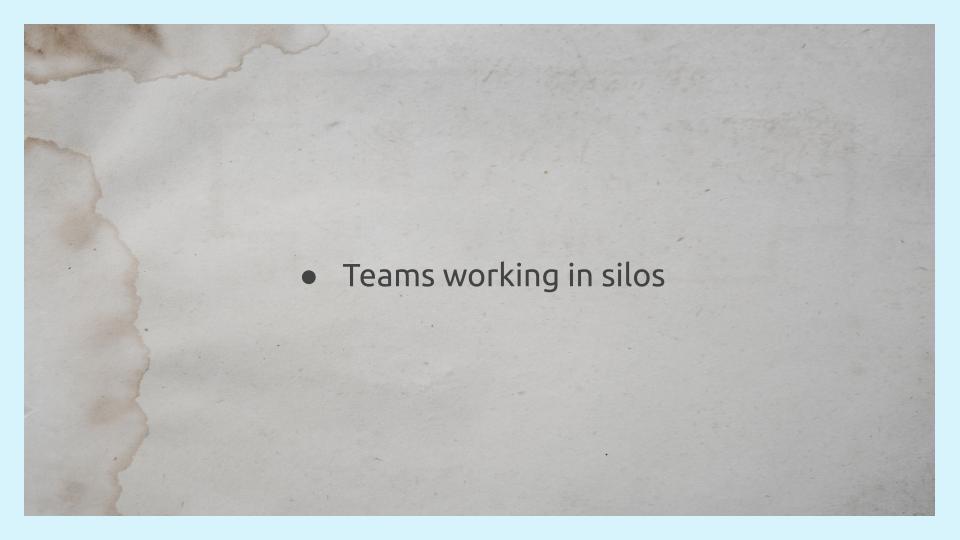


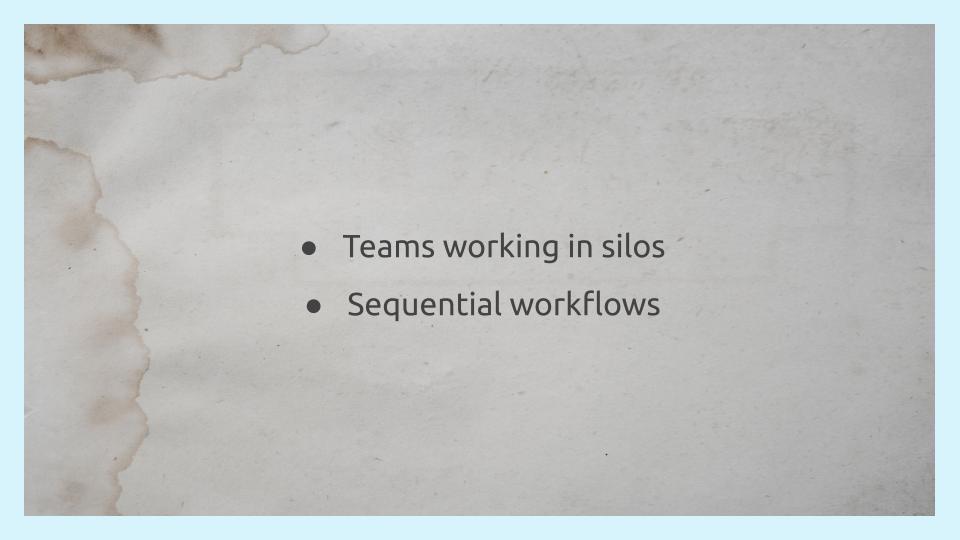


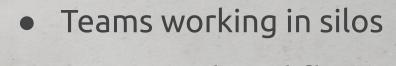




What was the problem?

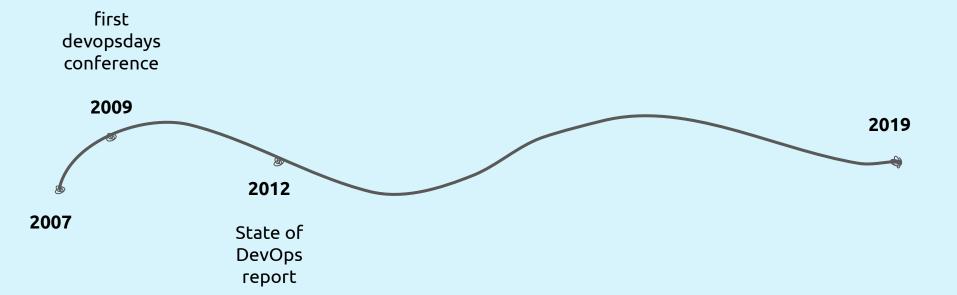






- Sequential workflows
 - Inflexible processes

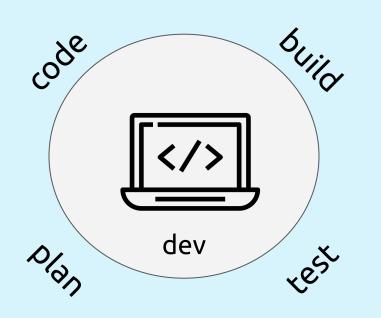
ENTER: DEVOPS



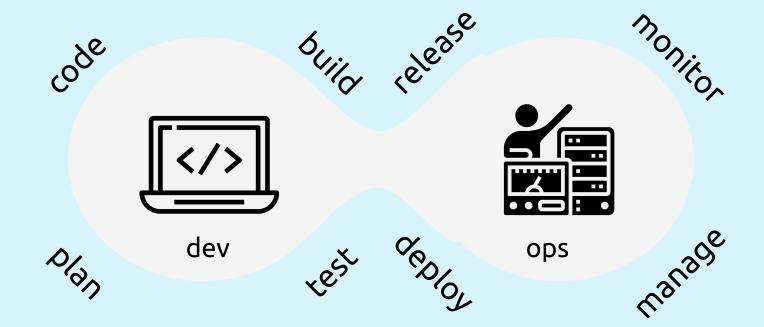


Cultural shift towards sharing ownership

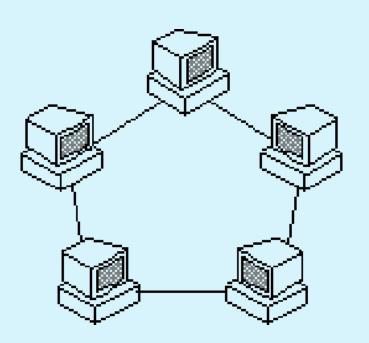








It's not just tooling



Infrastructure as Code

Containerization

Agile methodologies technical + cultural + process

Orchestration

Cloud technologies

Observability

CI/CD

Better communication

Better communication

Faster delivery

Better communication

Faster delivery

Stability

Better communication

Faster delivery

Stability

Happier teams and users



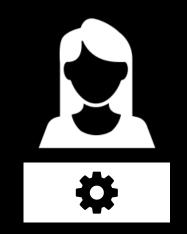
Can I be a "DevOps Engineer"?

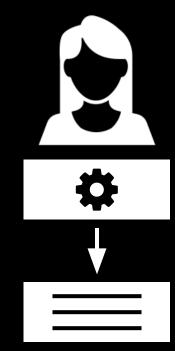
Thank you:)

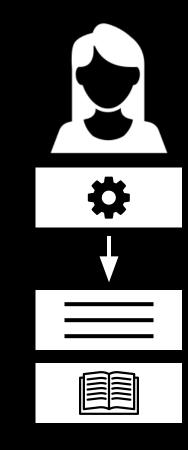
A BRIEF HISTORY OF

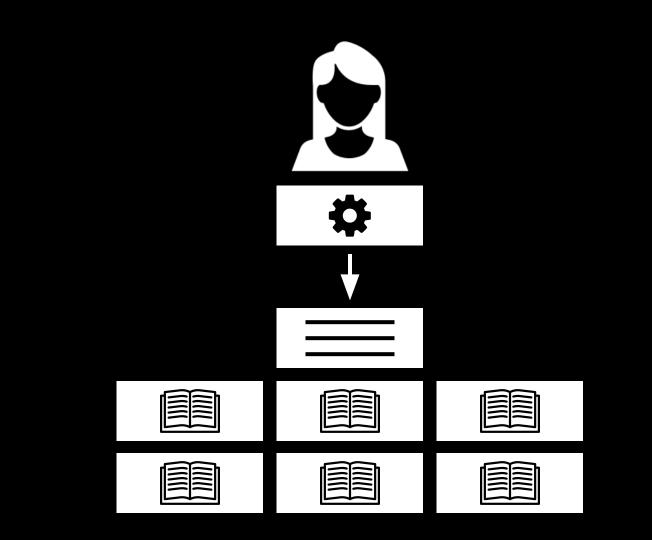


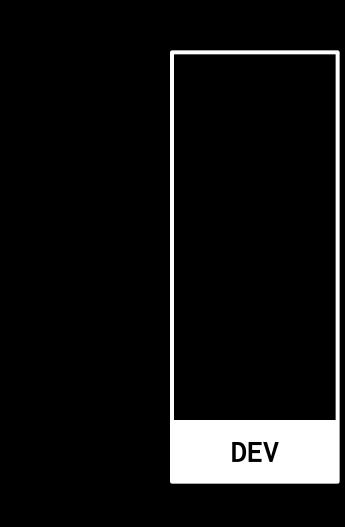




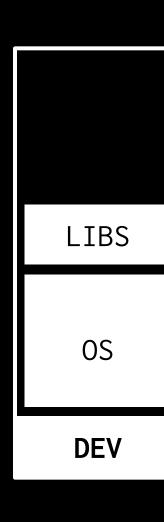


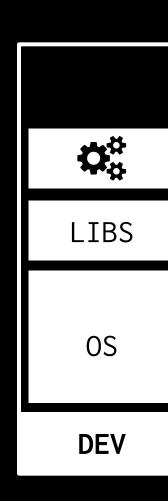


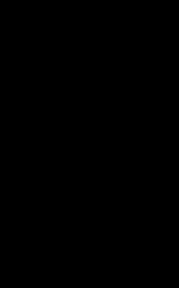


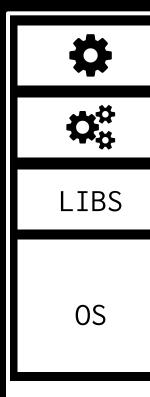




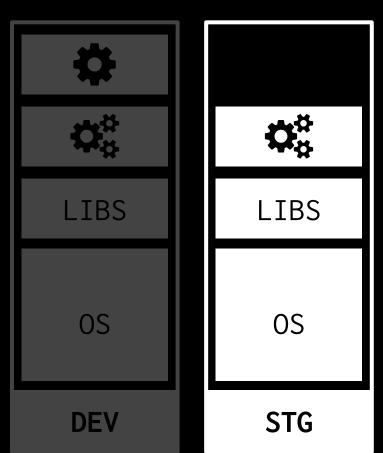


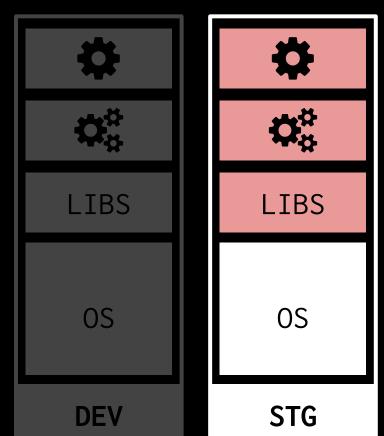




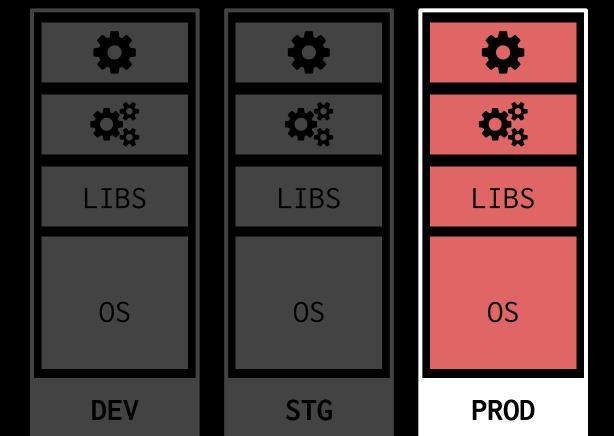








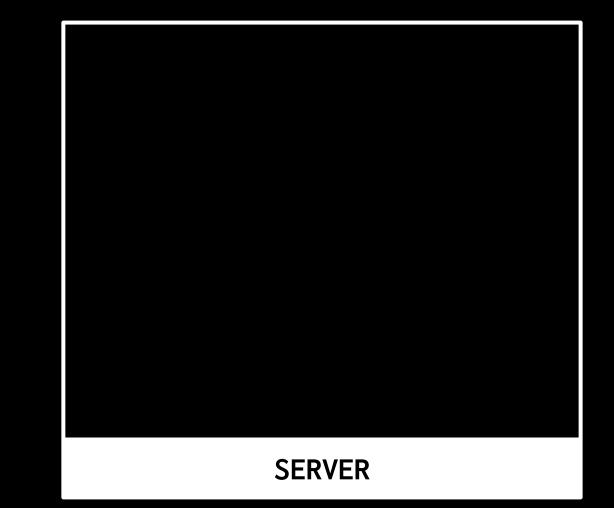


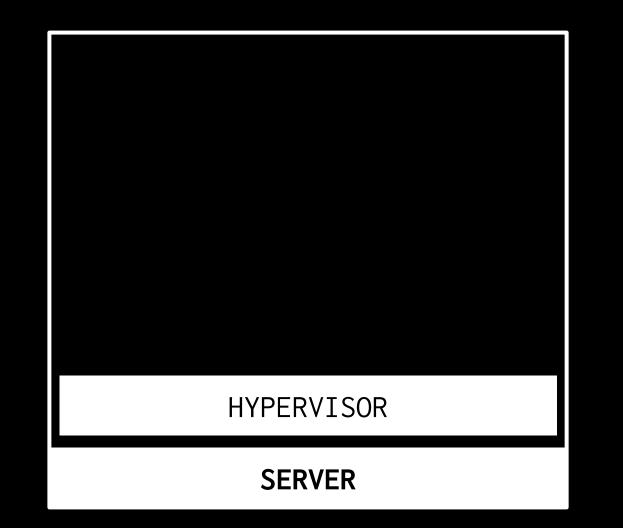


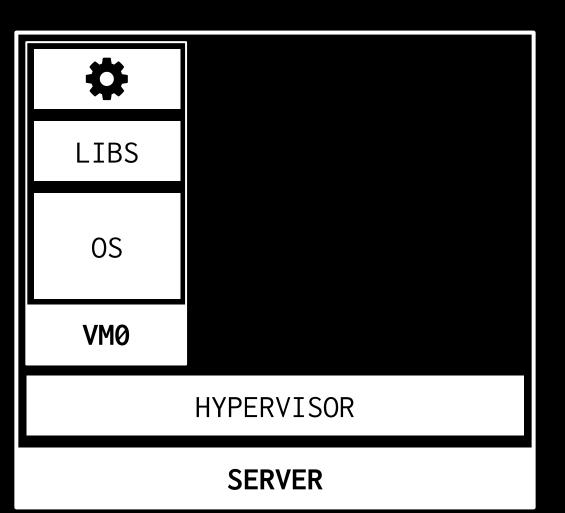


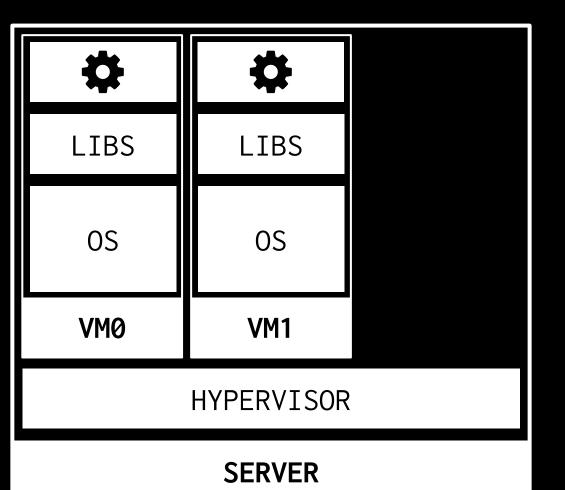
How do we encapsulate dependencies?

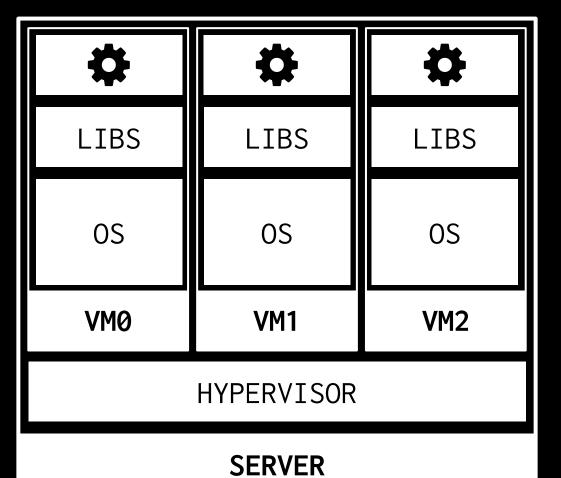
Virtual Machine

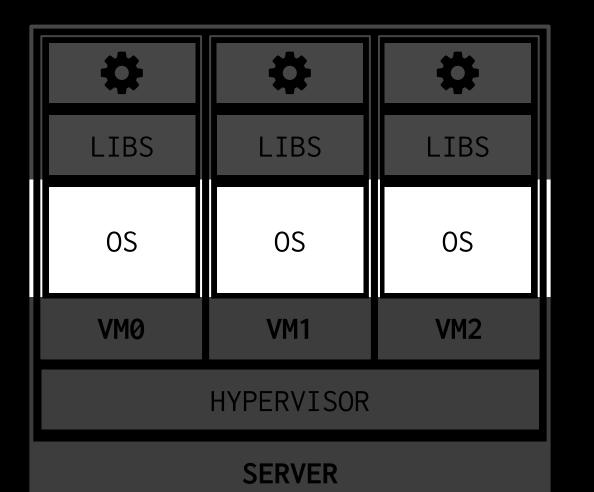






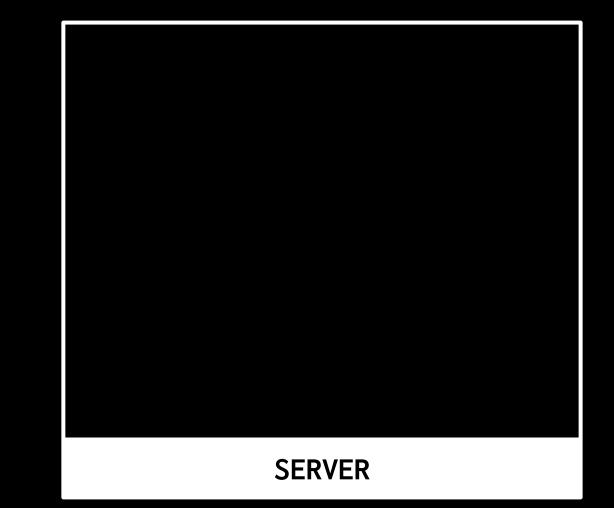


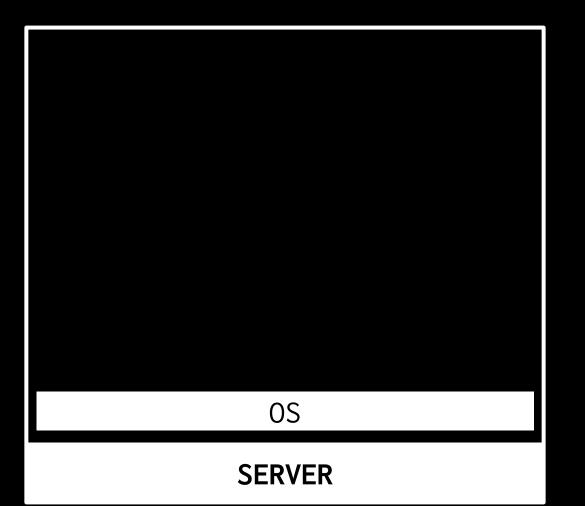


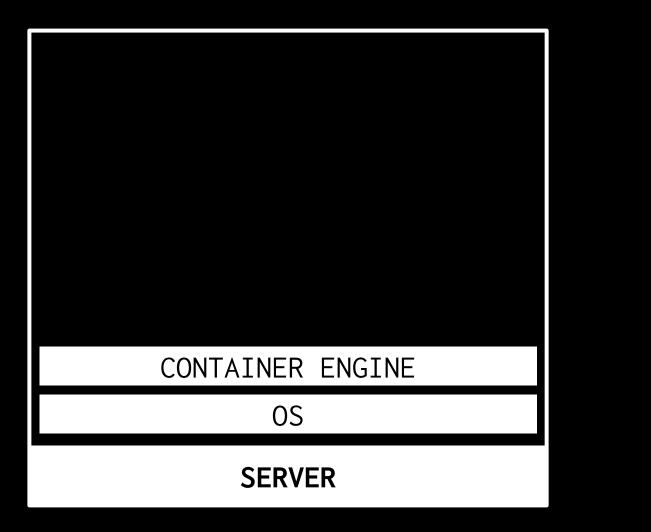


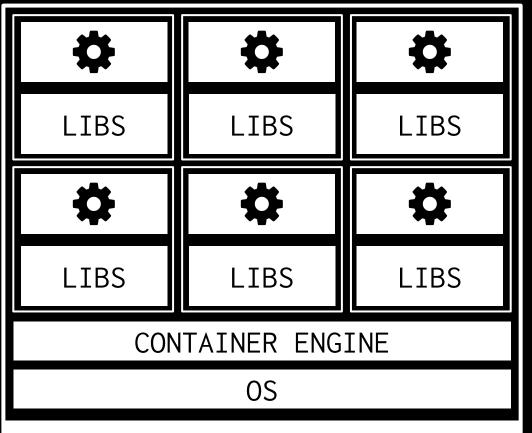
How do we reduce this large footprint?

Containers









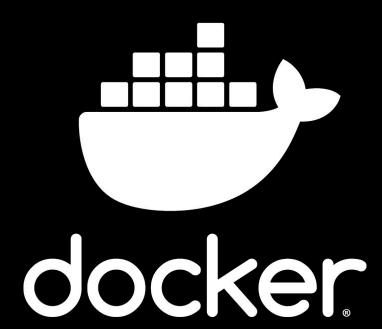
SERVER

Consistent runtime environment for applications

Application Sandboxing

Small physical size

Small resource overhead



DOCKER FILE



Start with a base.

FROM python: 3.7

ADD requirements.txt . ADD mypython.py

RUN pip install -r requirements.txt

EXPOSE 5000 LABEL maintainer="pyladies-berlin"

ENTRYPOINT ["python", "mypython.py"]

Add in your project files.

FROM python: 3.7

ADD requirements.txt requirements.txt ADD mypython.py mypython.py

Install your project dependencies.

FROM python: 3.7

ADD requirements.txt requirements.txt ADD mypython.py mypython.py

RUN pip install -r requirements.txt

Add metadata.

FROM python: 3.7

ADD requirements.txt requirements.txt ADD mypython.py mypython.py

RUN pip install -r requirements.txt

EXPOSE 5000
LABEL maintainer="pyladies-berlin"

Run your project.

EXAMPLE DOCKER FILE

FROM python: 3.7

ADD requirements.txt requirements.txt ADD mypython.py mypython.py

RUN pip install -r requirements.txt

EXPOSE 5000
LABEL maintainer="pyladies-berlin"

ENTRYPOINT ["python", "mypython.py"]

\$ docker	build	•	-t	myimage:latest	

https://github.com/emilywoods/pyladies-docker-works	shop

COMMON DOCKER



docker pull grafana/grafana:6.4.4

docker run

-d

--name=grafana

-р 9000:3000

grafana/grafana:6.4.4

docker run --name=grafana -р 9000:3000 grafana/grafana:6.4.4

docker run --name=grafana -р 9000:3000 grafana/grafana:6.4.4

```
docker run
          -d
   --name=grafana
    -p 9000:3000
grafana/grafana:6.4.4
```

docker run --name=grafana -p 9000:3000 grafana/grafana:6.4.4

localhost:9000

docker ps

IMAGE grafana/grafana:6.4.4 STATUS Up 2 minutes

0.0.0.0:9000->3000/tcp

grafana

NAME

PORTS

docker logs grafana

docker stop grafana