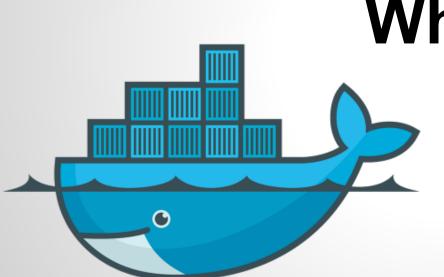
Who

Anton Blomberg Omegapoint AB

anton@deadlock.se



What

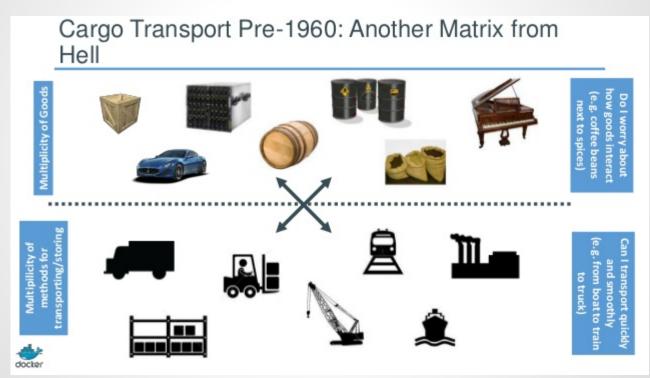
DOCKER

Build, Ship and Run Any App, Anywhere

Why

Shipping code to the server is too hard

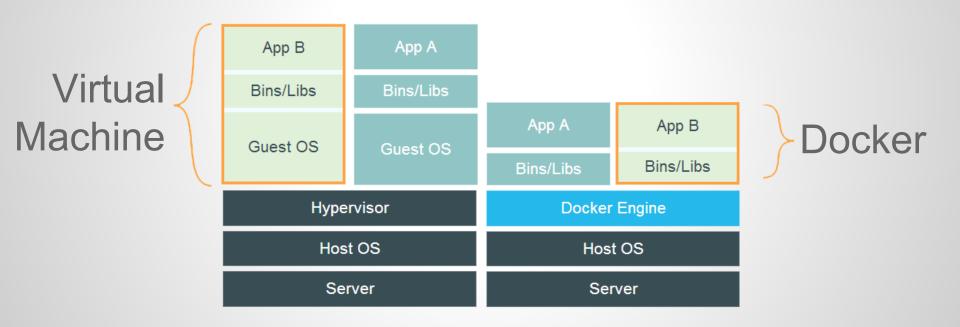
Why



Why



How



How

Linux Containers (LCX)

From inside it looks like a VM

chroot on steroids

How

Dockerfiles

```
FROM ubuntu:13.10
MAINTAINER Anton "anton@deadlock.se"
```

```
RUN apt-get update
RUN apt-get install -y python
```

EXPOSE 80

```
CMD ["python", "-m", "SimpleHTTPServer"]
```

Django

Writing a Dockerfile to deploy Django

Django Setup

FROM ubuntu:13.10
MAINTAINER Anton "anton@deadlock.se"

Django SSH

```
EXPOSE 22
ADD public_key /root/.ssh/authorized_keys
RUN sed -i 's/UsePAM yes/UsePAM no/g' /etc/ssh/sshd_config
RUN mkdir /var/run/sshd
```

Django Supervisor

ADD supervisor.conf /etc/supervisor/supervisord.conf EXPOSE 8000

```
supervisor.conf:
  [program:deadlock_web]
  stopsignal=QUIT
  priority=10
  directory=/etc/apps/deadlock_web
```

Django Supervisor

```
supervisor.conf:
command=uwsgi
    --http-socket 0.0.0.0:8000 -p 4 -b 32768 -T --master
    --max-requests 5000 -H /etc/ve/deadlock web/
    --static-map /static=/etc/apps/deadlock_web/static root
    --static-map /static=/etc/ve/deadlock web/lib/python2.7/\
                      site-packages/django/contrib/admin/static
    --module deadlock.wsgi:application
    --env DJANGO SETTINGS MODULE="deadlock.local settings"
user=root
autostart=true
autorestart=true
```

Django Upload

RUN virtualenv /etc/ve/deadlock web

```
RUN mkdir -p /etc/apps/deadlock web
                             /etc/apps/deadlock web/
ADD manage.py
                             /etc/apps/deadlock web/
ADD requirements.txt
                             /etc/apps/deadlock web/deadlock/
ADD deadlock/
                             /etc/apps/deadlock web/blog/
ADD blog/
                             /etc/apps/deadlock web/ckeditor/
ADD ckeditor/
ADD templates/
                             /etc/apps/deadlock web/templates/
                             /etc/apps/deadlock web/static/
ADD static/
ADD local_settings_deploy.py \
       /etc/apps/deadlock_web/deadlock/local_settings.py
                             /etc/apps/deadlock web/adminpass.txt
ADD adminpass.txt
```

Django Deploy

```
RUN /etc/ve/deadlock web/bin/pip install -r \
                /etc/apps/deadlock web/requirements.txt
RUN (cd /etc/apps/deadlock web/ &&
/etc/ve/deadlock web/bin/python
 \ manage.py syncdb --noinput --settings=deadlock.
local settings)
RUN (cd /etc/apps/deadlock web/ &&
/etc/ve/deadlock web/bin/python manage.py collectstatic --
noinput --settings=deadlock.local settings)
```

Django Deploy

Django Run

CMD ["supervisord", "-n"]

Django Demo

Let's try a demo!

Questions?

Code

https://github.com/Lingonsylt/deadlock/tree/dockerpresentation

Anton Blomberg

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