Talk as a Service

@m_e_i_s #MadPerl2017

So the people have chosen



Docker (&-compose) for (perl) developers



Larry Walters 1982

Larry Walters lugs craft past police car after landing in Long Beach.

PILOT: Aloft in a Lawn Chair

Walters was able to drop to the ground a few feet below his lawn chair.

As he was coming down over the roofs of Long Beach, he said, "I was saying prayers to God to please let me down in one piece."

He was jettisoning equipment as he came down—including his pellet gun, life jacket and radio.

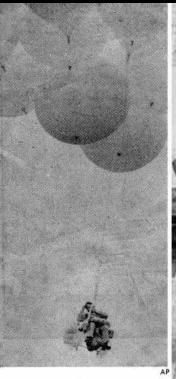
When he came back to earth about 11:45 a.m., his face was sunburned a bright red and Walters was tired but exhilarated. "I have fulfilled my 20-year dream," he announced.

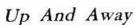
Did he plan to go up again?

"I'm staying right on the ground, yes ma'am. I proved to myself that the thing does work."

The Federal Aviation Administration took a less happy view. "We know he broke some part of the Federal Aviation Act," regional safety inspector Neal Savoy told the Associated Press, "and as soon as we decide which part it is, some type of charge will be filed."

But Lt. Reed of the Long Beach police shrugged. "There probably won't be any action taken," he said, "basically because there is nothing that covers something so unorthodox."





Larry Walters, sitting in his lawn chair, appears a bit concerned as he watches his last tether line break, shooting him skyward over California. Walters and his 45 weather balloons soared 16,000 feet high, exciting two jetliner pilots.



Images

Containers

Dockerfile

```
FROM perl:5.24
RUN apt-get update && apt-get install -y \
    iputils_ping
```

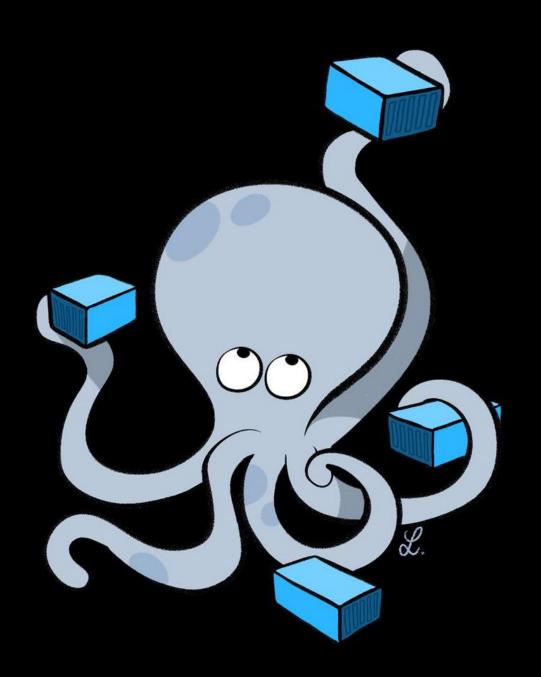
```
RUN useradd -ms /bin/bash code
ENV HOME=/home/code
WORKDIR /home/code
USER code
```

CMD echo "Madrid Perl Workshop"

```
# Build image
$ docker build -t my_image .
```

```
# Run container
$ docker run run -ti my_image
Madrid Perl Workshop
```

\$ docker run -ti my_image /bin/bash
code@4557f41ec2fe:~\$



Docker Compose

Services

Network

docker-compose.yml

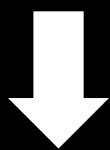
```
version: '2'
services:
  web:
     image: my_image
      ports:
        - "5000:5000"
     volumes:
        - .:/home/code
     command: ./run_my_app.pl
     depends_on:
        -redis
  redis:
     image: "redis:alpine"
```

Ok, so?

CONSTRAINTS

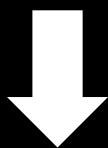
No, really, constraints.

Can't write to disk



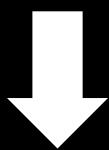
Immutability

Immutability



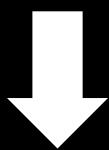
Less uncertainty

Immutability



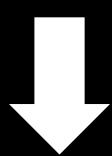
Easy(er) to reason about

Support only one OS



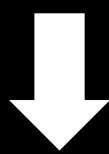
You only need one

Support only one OS

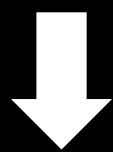


(probably) Works on prod

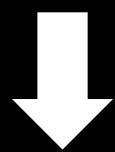
Support only one OS



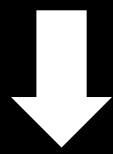
Don't need plenv/brew



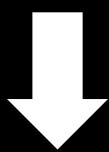
Infrastructure as code



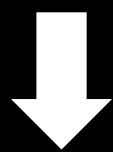
Explicit dependencies



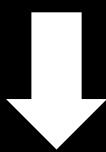
Works on 'dev' machine



Integration first

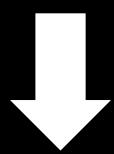


Infrastructure as code



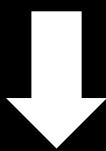
Try Perl 5.26 today

Infrastructure as code



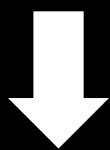
New dev? docker-compose up

docker-compose up

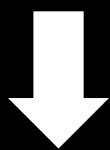


My laptop can burn

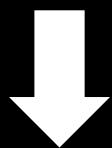
1 container, 1 process



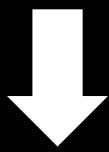
1 process, 1 service



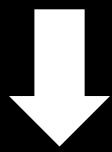
Explicit communication



Better architecture

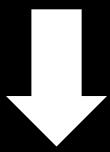


Look Ma! Microservices



Each service it's the king

Only Linux?



?



Remember Larry?

Why is relevant?

IT'S AWESOME

Why isn't everyone talking about this?

Constraints are good

TIMTOWDY

Deployments are hard

Thanks

Questions?

(And apologies for the lack of kittens, you should have asked for it)