



Docker Development Template

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Developer's Dream

<https://www.justwatch.com/de/Film/Der-Flug-des-Navigators>

1. Get Code
2. Get Dependencies
3. Start the Engines



Fast
Forward



ANGULARJS
by Google





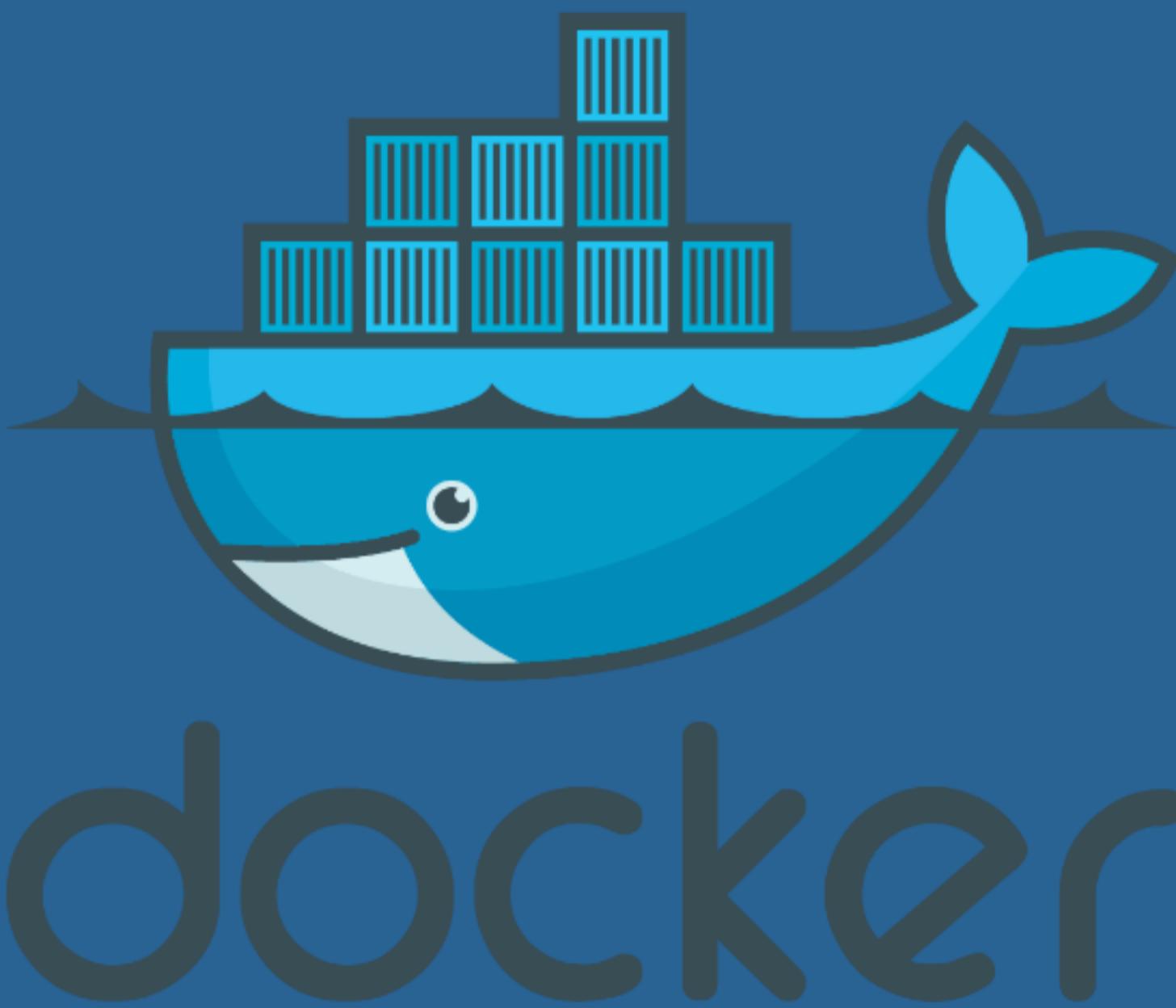
What has
happened?

<http://www.gamona.de/kino-dvd/deadpool-2,autoren-auch-das-sequel-benoetigt-kein-hohes-budget:news.html>

My example project docker-dev-template

<https://bitbucket.org/account/user/janatzendteam/projects/DOC>

What do I need?



Docker \neq VirtualBox



one daemon

=

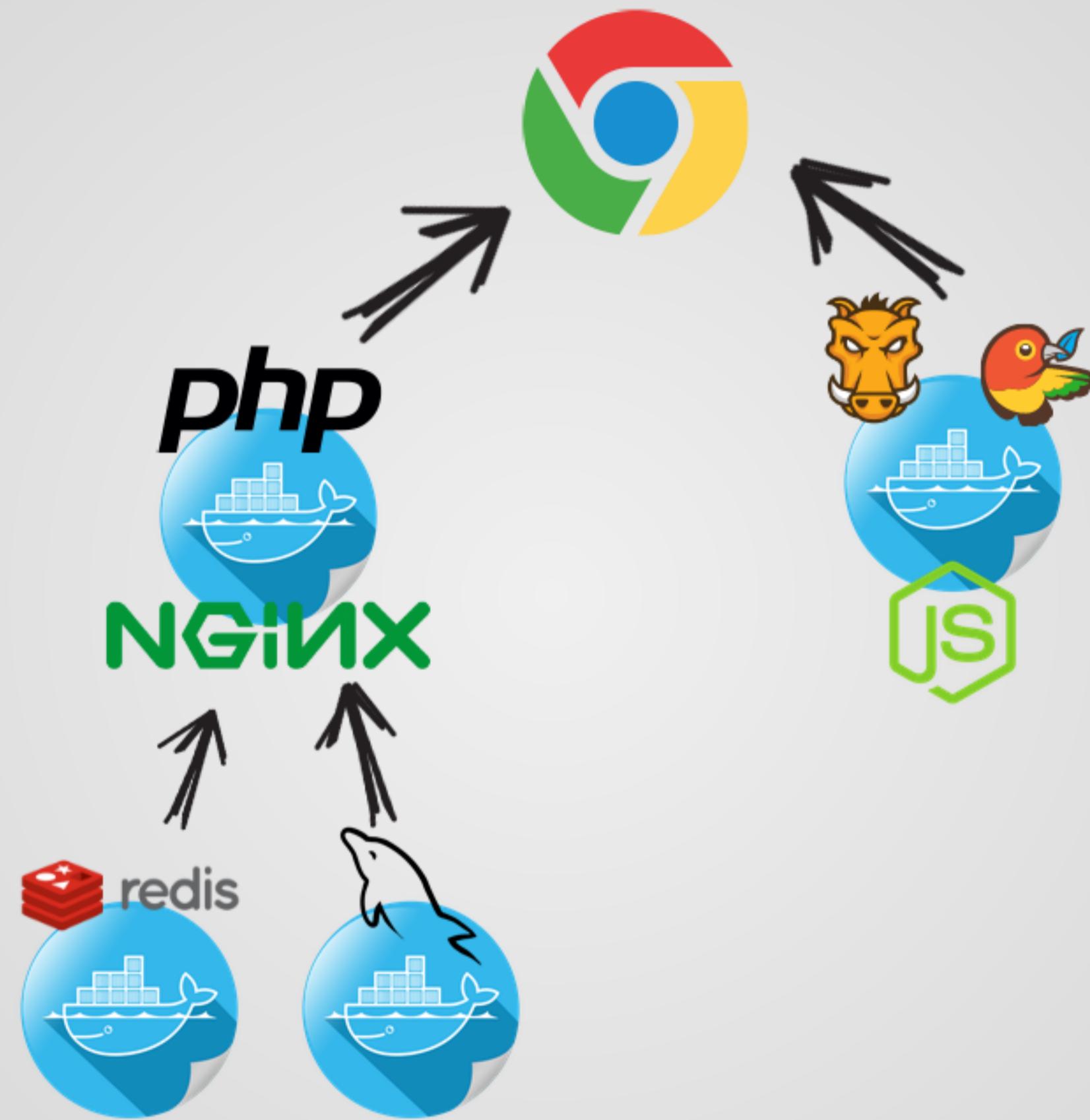
one container

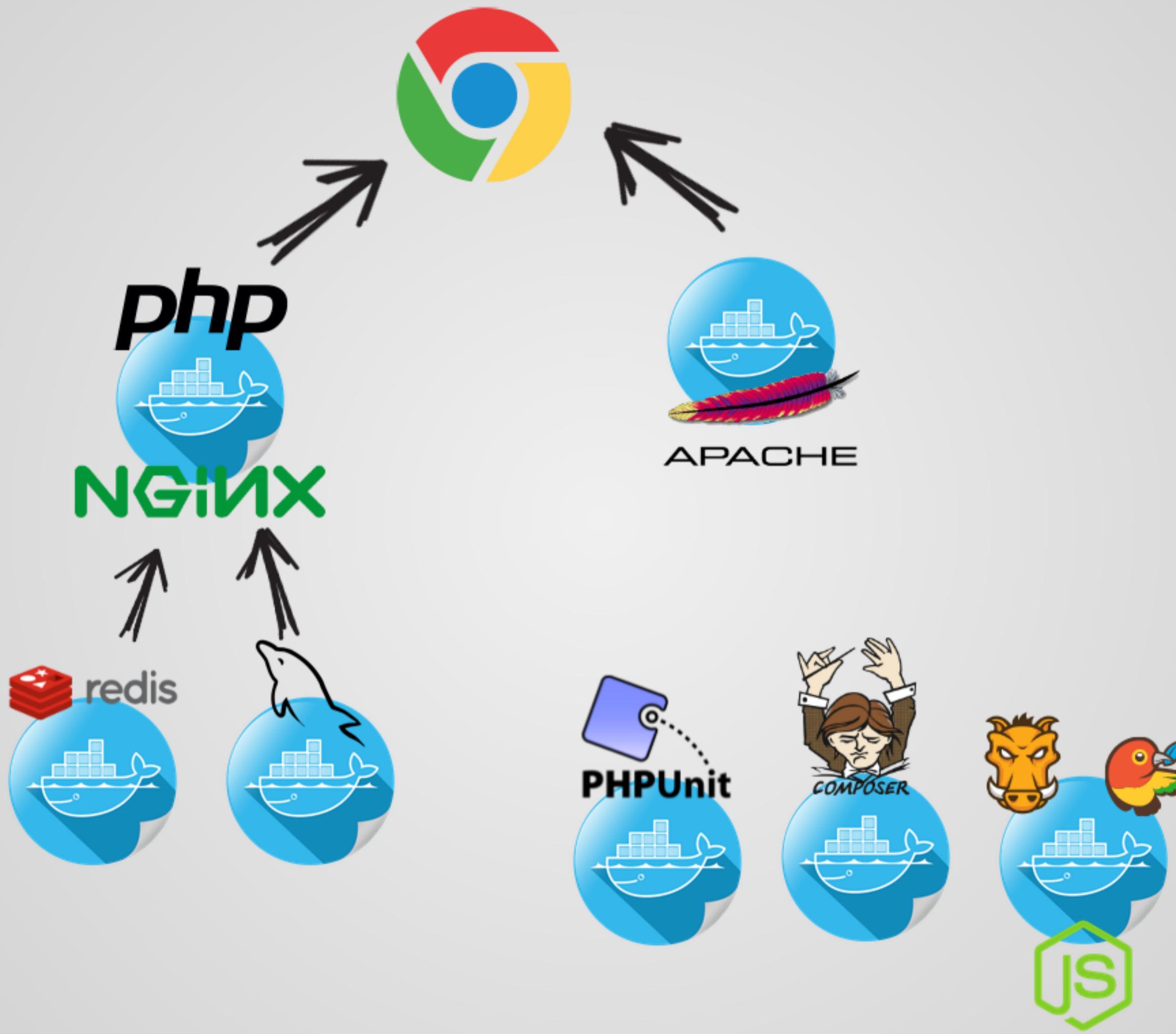
"In almost all cases, you should only run a single process in a single container. Decoupling applications into multiple containers makes it much easier to scale horizontally and reuse containers. If that service depends on another service, make use of container linking."

https://docs.docker.com/engine/userguide/eng-image/dockerfile_best-practices/

Docker Compose

"Compose is a tool for defining and running multi-container Docker applications."







```
docker run -d -i -t -p 80:80 -p \  
3000:3000 -p 3001:3001 -p \  
2222:22 --name gsd alankent/gsd
```

```
docker run -it --rm --name my-running-  
script \  
-v "$PWD":/usr/src/myapp \  
-w /usr/src/myapp php:7.0-cli \  
php your-script.php
```

```
docker run -d -i -t -p 80:80 -p \  
3000:3000 -p 3001:3001 -p \  
2222:22 --name gsd alankent/gsd
```

```
docker run -it --rm --name my-running-  
script \  
-v "$PWD":/usr/src/myapp \  
-w /usr/src/myapp php:7.0-cli \  
php your-script.php
```



Duct tape works anywhere.
Duct tape is magic and
should be worshipped.

Andy Weir, The Martian

<http://the-martian-movie.tumblr.com/post/128648842093/duct-tape-here-duct-tape-there-engineering-on>

#THEMARTIAN

docker-compose.yml (.env)

<https://bitbucket.org/janatzendteam/development/src/master/docker-compose.yml>

docker-compose:
helps me defining (dev)
infrastructure

A close-up photograph of Matthew Broderick as Ferris Bueller, lying on his back in a bed. He is wearing a white t-shirt and has a relaxed, slightly smiling expression. His head is resting on a white pillow. The background is a light-colored wall.

Makefile

<https://bitbucket.org/janatzendteam/development/src/master/Makefile>

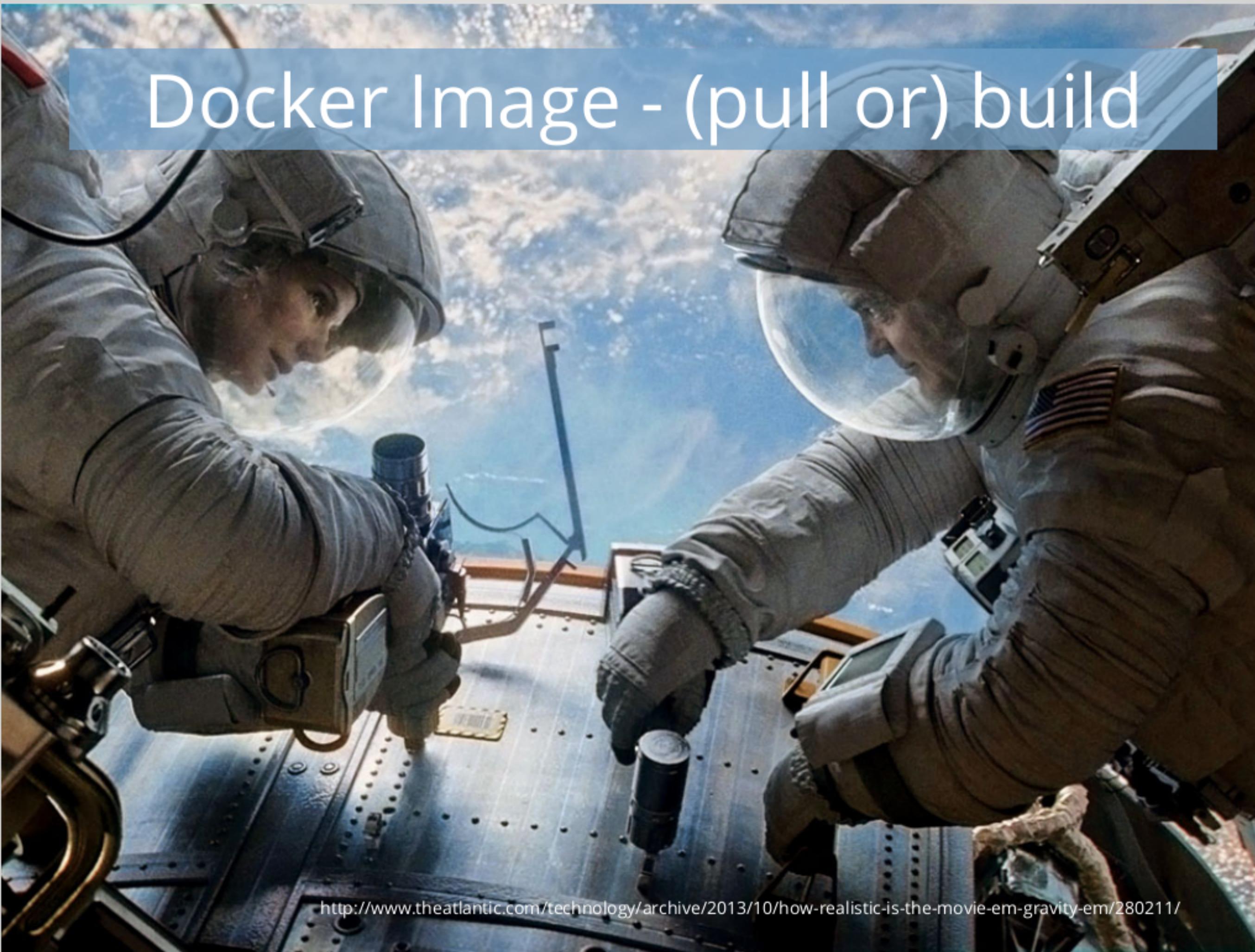
<http://90to5.org/5MM/2015/ferris-buellers-day-off-1986/>

make:
helps me controlling the
infrastructure

Important Commands:

- make build
- make up
- make stop
- make clean
- make docker-build
- make exec-php

Docker Image - (pull or) build



<http://www.theatlantic.com/technology/archive/2013/10/how-realistic-is-the-movie-em-gravity-em/280211/>

- Docker Hub
- Private Docker Repository
- Local Dockerfile
- Remote Dockerfile

A football player in a green and white uniform is performing a handstand on a grassy field. He is wearing a helmet with a clear visor and a jersey with the number 10. His legs are spread wide in a straddle position. In the background, there is a large stadium filled with spectators. A dark rectangular overlay with the word "FAIL" in white capital letters is positioned in the upper right corner of the image.

FAIL

- Docker Updates
- Docker Compose Updates
- Permissions
- Persistent Data

Permissions?

What's the problem?

- apache writes files
- write access for www-data
- www-data not available on host
- use uid and gid of local user (#)
- chmod on apache dirs

Database
or
Where to store my
persistent Data?

- use Makefile to prepare
- map local dir to /var/lib/mysql



Benefits

- no huge files to handle
- exchange containers
- every step is documented
- quick start

Danke schön

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<https://bitbucket.org/account/user/janatzendteam/projects/DOC>
<https://janatzend.github.io/talks/>

