



# The Docker Development Template for PHP



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A young boy in a flight suit and helmet looks up at a glowing celestial map. The map is filled with stars and constellations, with a prominent yellow circle highlighting a specific area. The boy appears to be in a cockpit or a control room.

# Developer's Dream

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

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



Zend Expressive  
(+ a little JS)

# Demo Video

<https://s3.eu-central-1.amazonaws.com/stuttgart-office-files/vault/video/particulum-mobile-large.webm>

A scene from the movie Deadpool 2. On the left, Deadpool (Ryan Reynolds) is shown from the waist up, wearing his signature red and black suit. He has his hands clasped near his chin, looking slightly upwards with a thoughtful or weary expression. On the right, Cable (Josh Brolin) is shown from the chest up. He is wearing his characteristic silver-colored metal armored suit, which includes a high-collared vest and shoulder guards. His mouth is open as if he is speaking or shouting. The background is a blurred cityscape with a bridge visible.

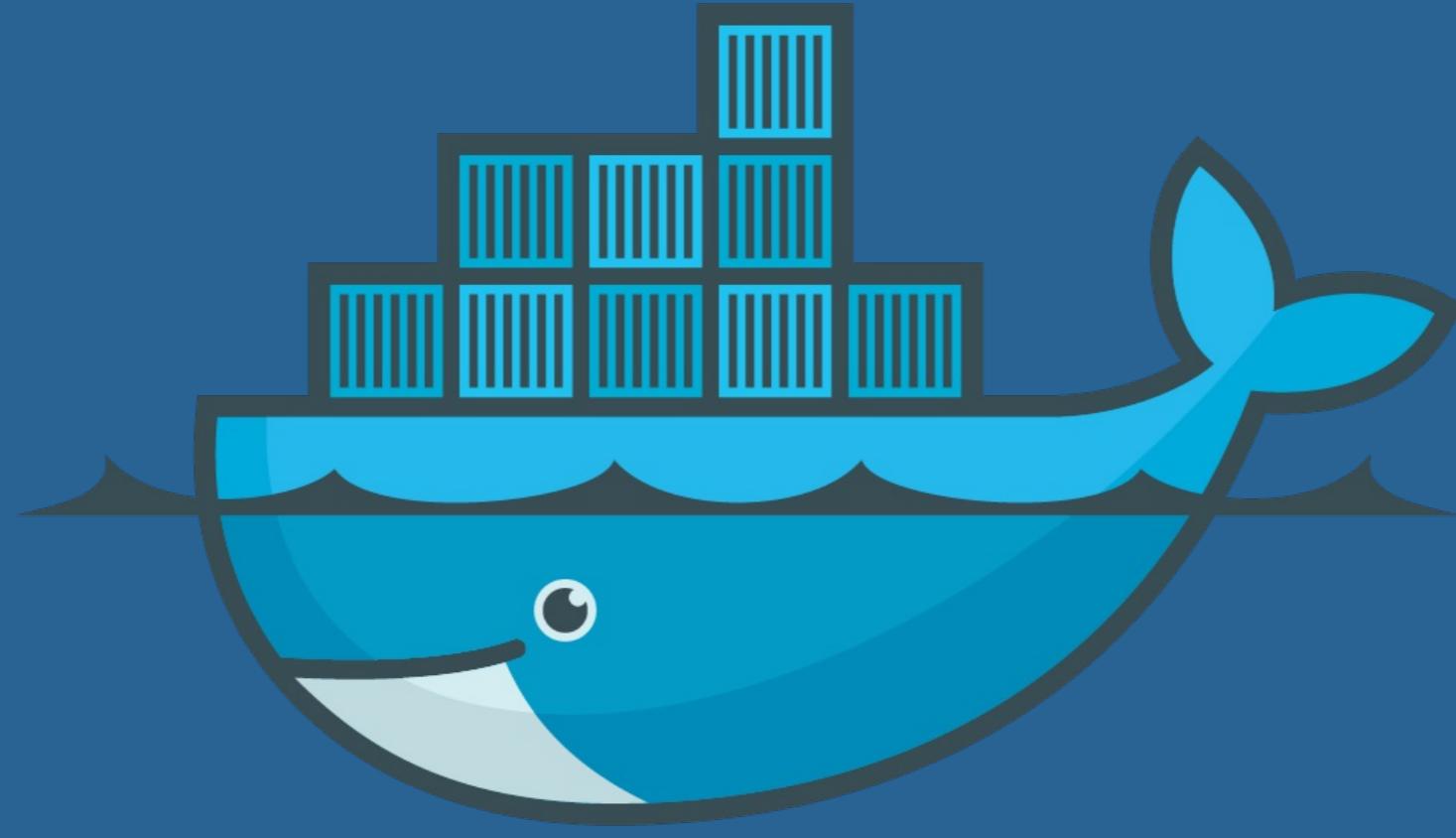
What has  
happened?

# My example project

# particulum-mobile

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

# What do I need?



docker

# Docker ≠ VirtualBox

**NGINX**



***php***



**redis**



One Daemon

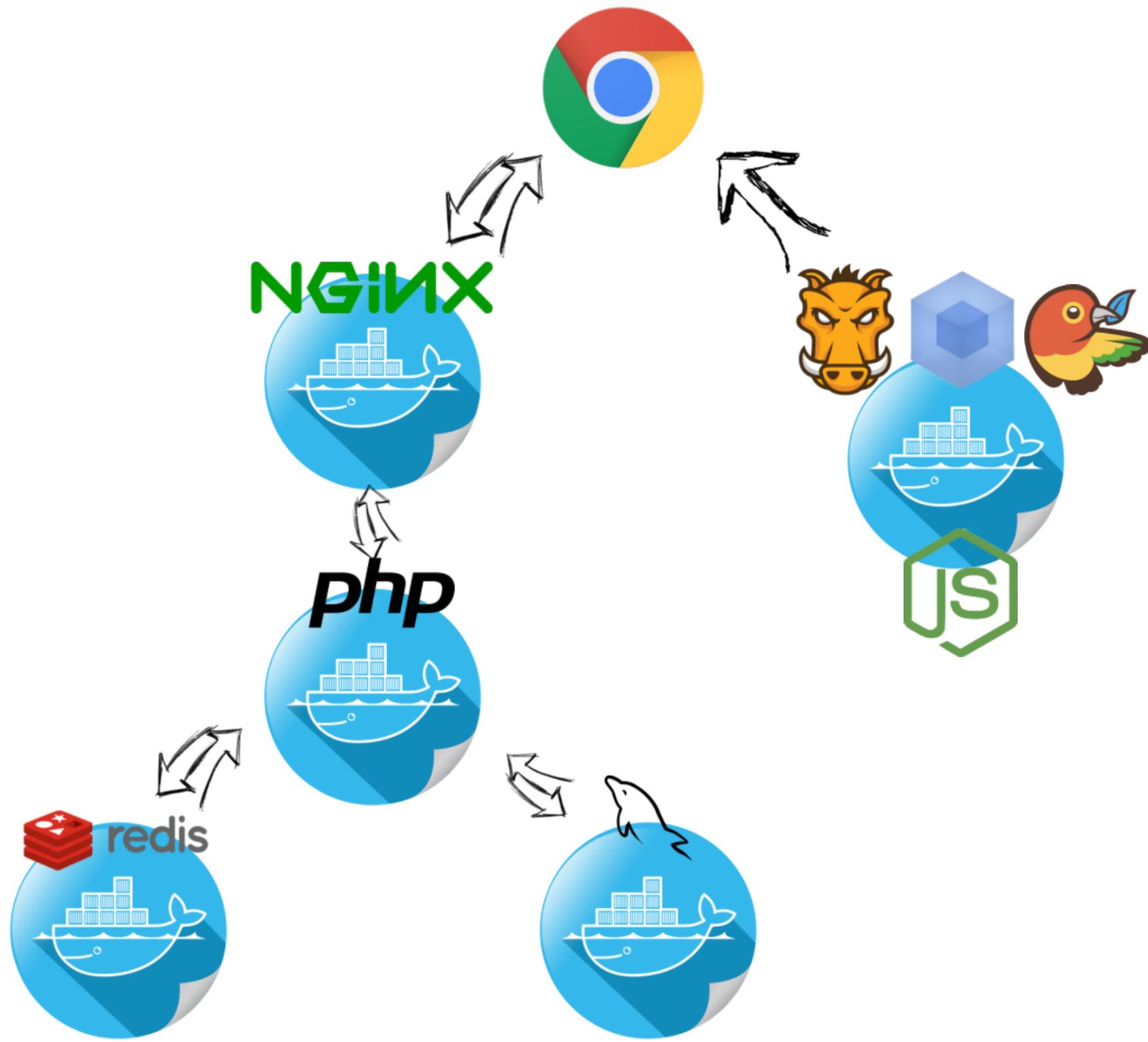
=

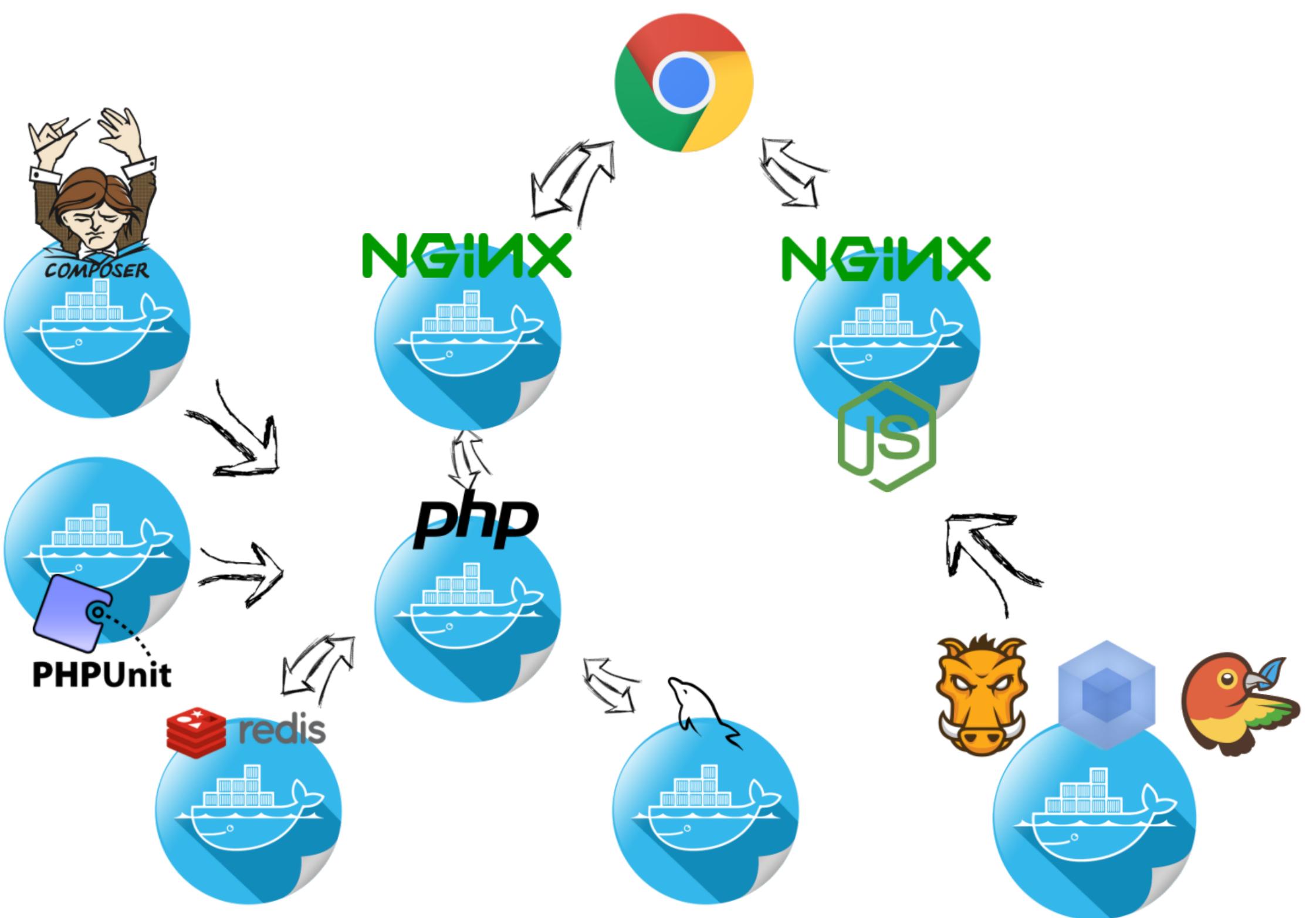
One Container

"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."

# Docker Compose

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





A scene from the movie Kingsman: The Secret Service. In the center, Colin Firth's character, Eggsy, stands in a dark suit and glasses, holding a cane. He is surrounded by his team: a Black man in a grey hoodie, a bald man in a maroon sweater, a bald man in a grey hoodie, a bald man in a dark jacket, and another bald man in a dark jacket. They are in a room with leopard-print wallpaper and a large clock above them.

# Challenge

```
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 \  
/bin/bash -c "cd /usr/src/myapp & ./myapp"
```

```
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

docker-compose.yml  
docker-compose-setup.yml  
(.env)

<https://bitbucket.org/janatzendteam/particulum-mobile-master/src/masterbitbu/docker-compose.yml>

docker-compose:  
helps me defining (dev)  
infrastructure

A close-up, slightly blurred photograph of Ferris Bueller, played by Matthew Broderick. He is looking directly at the camera with a neutral expression. He has dark hair and is wearing a light-colored button-down shirt. The background is out of focus, showing what appears to be a room with other people.

# Makefile

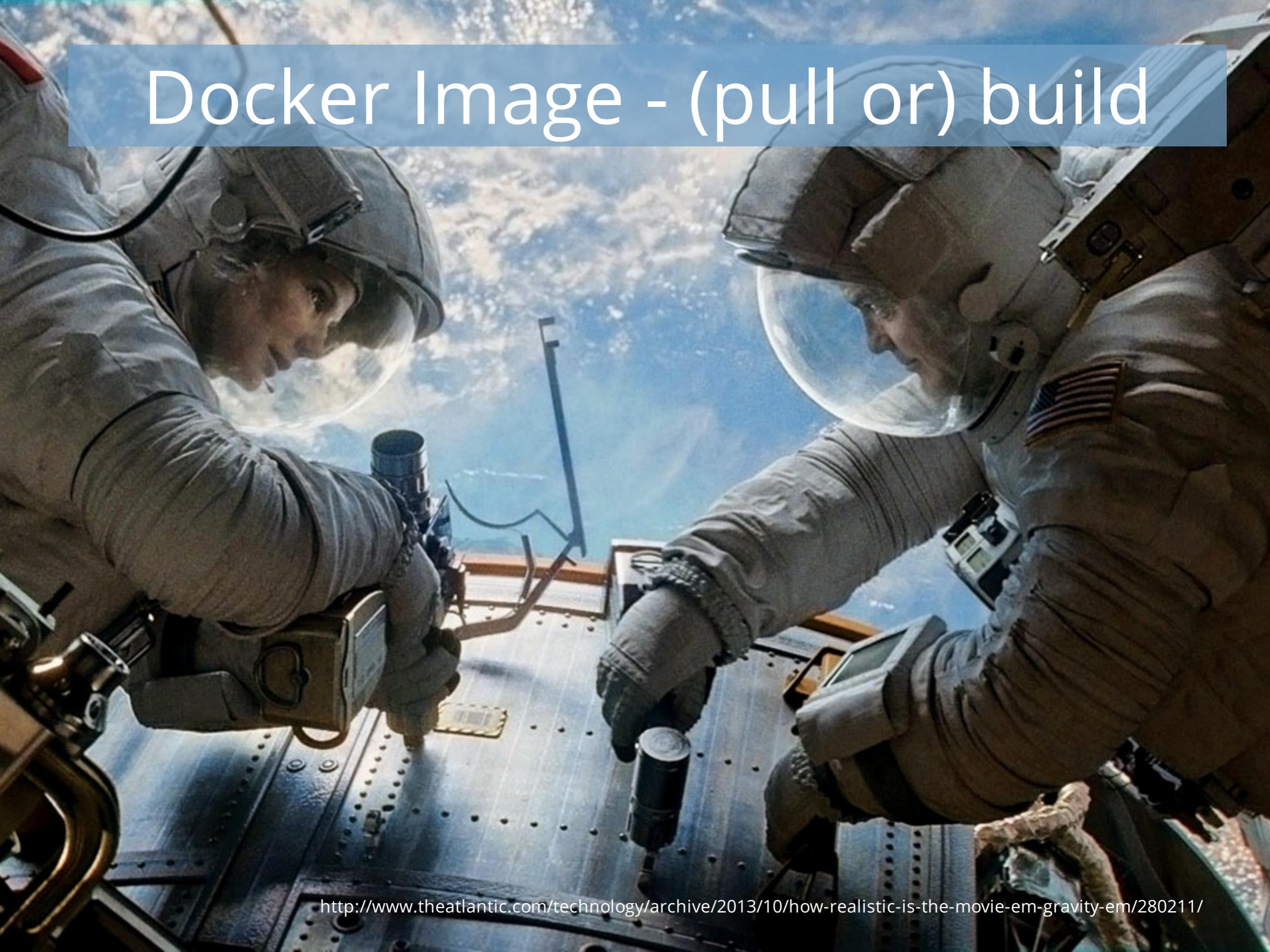
<https://bitbucket.org/janatzendteam/particulum-mobile-master/src/master/Makefile>

make:  
helps me controlling the  
infrastructure

# Important Commands:

- make start
- make up
- make down
- make clean
- make build-dev

# Docker Image - (pull or) build

A photograph from the movie Gravity showing two astronauts in full space suits working on a metal plate outside a spacecraft. One astronaut is in the foreground, looking down at his work, while the other is in the background. The suit has an American flag patch on the arm. The background is a vast, blue-tinted void of space.

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

FAIL



- Missing Best Practices
- 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?

- Volumes
- map local dir to /var/lib/mysql

A scene from the movie Guardians of the Galaxy. The characters Star-Lord (Chris Pratt), Gamora (Zoe Saldana), Drax (Dave Bautista), and Rocket (voiced by Bradley Cooper) are looking upwards in awe at a bright, glowing orb in a dark, star-filled space. They are standing in front of a large, organic-looking structure.

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/PAR>

<https://janatzend.github.io/talks/>

