



Docker Development Template

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Developer's Dream

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>

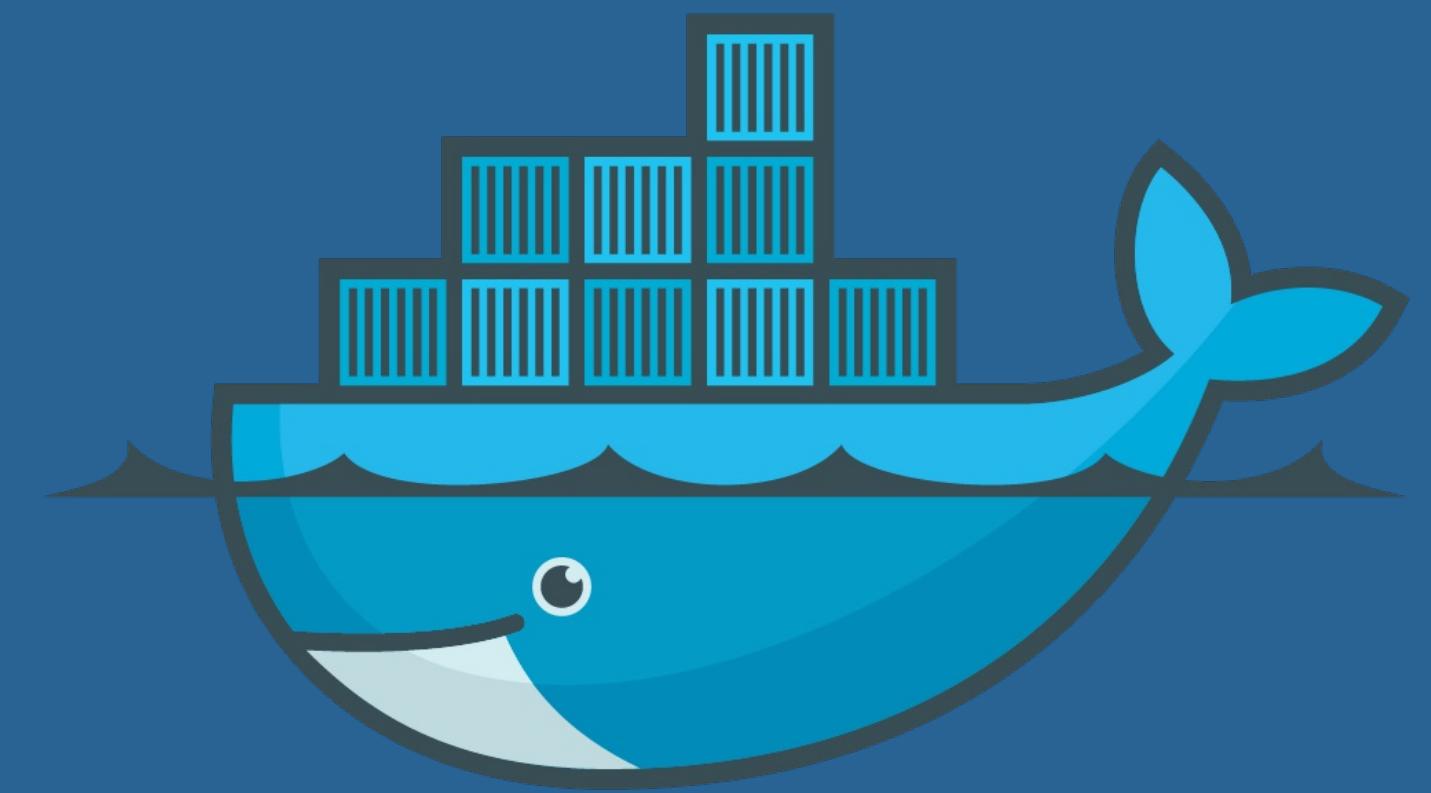


What has
happened?

My example project particulum-mobile

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

What do I need?



docker

Docker \neq VirtualBox

NGINX



php



redis



One Daemon

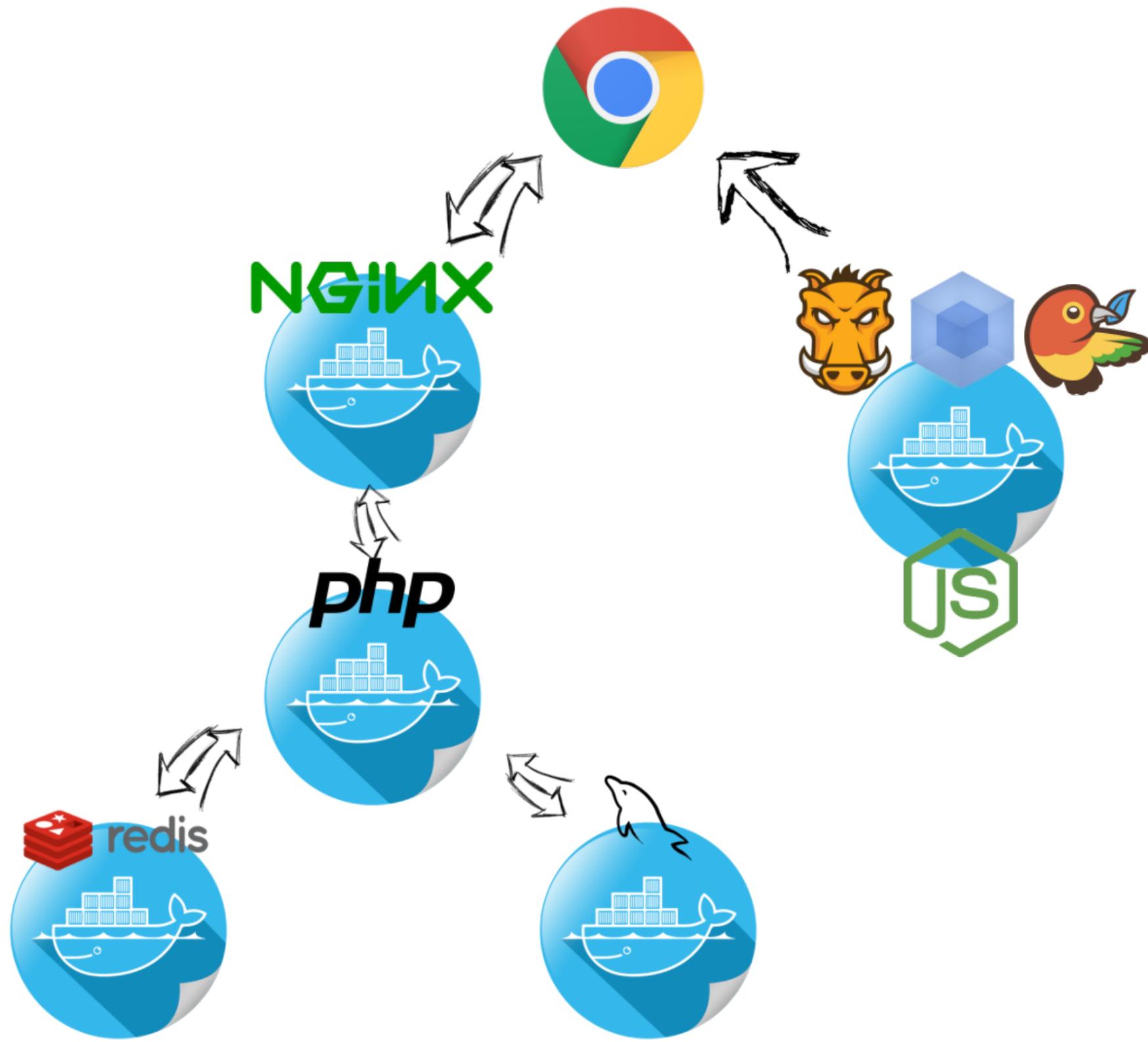
=

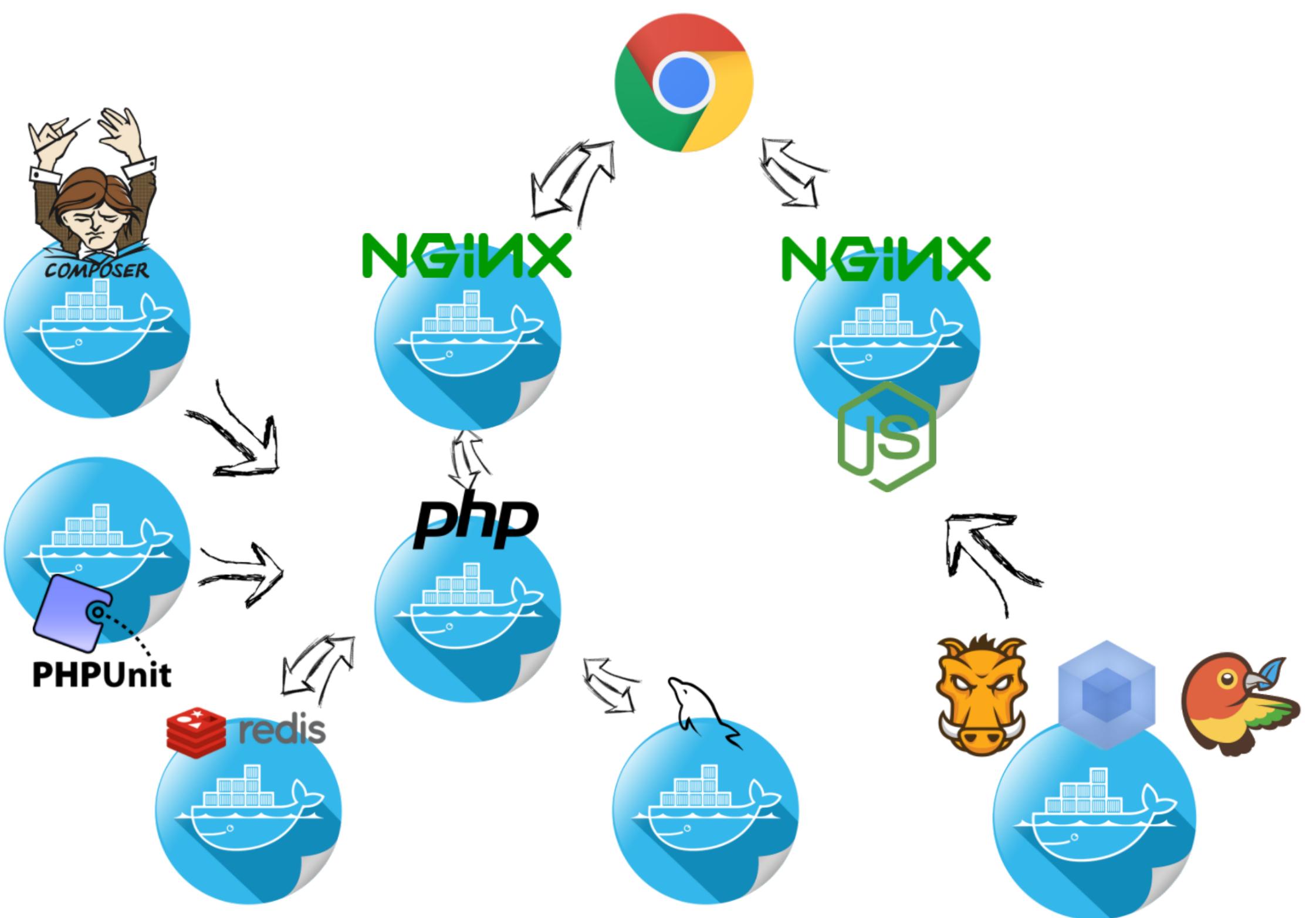
One Container

"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."







<http://www.foxmovies.com/movies/kingsman-the-secret-service>

```
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 & npm start"
```

```
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 white 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



<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

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



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/>

