Open source your daily work!

What happens if your daily work is happening in the open?

DrupalEurope Darmstadt
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We will talk about: open source, challenges, benefits, a bit of history a recap on our past year.

$> whoami bastian

System Engineer at amazee.io
Open Source
Containers in Production 👻🤖
Zurich, Switzerland
@dasrecht
Too many side projects!

- DevOpsDays Zurich
- CommunityRack.org
- TEDxBern

Who uses open source software daily?

Raise your hand if you use one of the following tools:

Drupal

Drupal, Composer

Drupal, Composer, MariaDB

Drupal, Composer, MariaDB, Redis

Drupal, Composer, MariaDB, Redis, Node.js

Drupal, Composer, MariaDB, Redis, Node.js, Nginx

Drupal, Composer, MariaDB, Redis, Node.js, Nginx, Apache

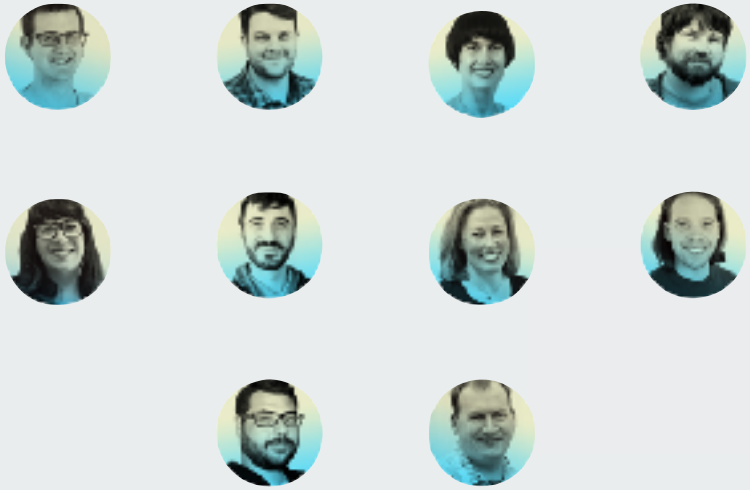
Drupal, Composer, MariaDB, Redis, Node.js, Nginx, Apache, PHP

Drupal, Composer, MariaDB, Redis, Node.js, Nginx, Apache, PHP, Linux

Let's agree:
Open source is everywhere!

So, amazee.io?

amazee.io



- Hosting Platform tailored to Drupal
- Part of the Amazee Group
- Team of 11
- Hosting since 8 years
- High-Performance and High-Traffic sites
- We’re a remote team
- Hosting in 16 different countries
- Cloud and on-premise

Local Development Iterations

From Vagrant to Docker in 3 Years

We went from Vagrant to Containers!

- many many System Engineers

Iterations

- 2014
  - Hey Vagrant is cool! = Vagrant & Chef
- 2015
  - Ok Vagrant and Puppet it is!
- 2016
  - It’s not flexible, uses a lot of space and updating is a pain!
  - Let’s take look at Docker
  - Building tooling around Docker - pygmy
  - Customer Demand: Decoupled Websites
  - **Why using Containers just locally?**

Pygmy: https://github.com/amazeeio/pygmy

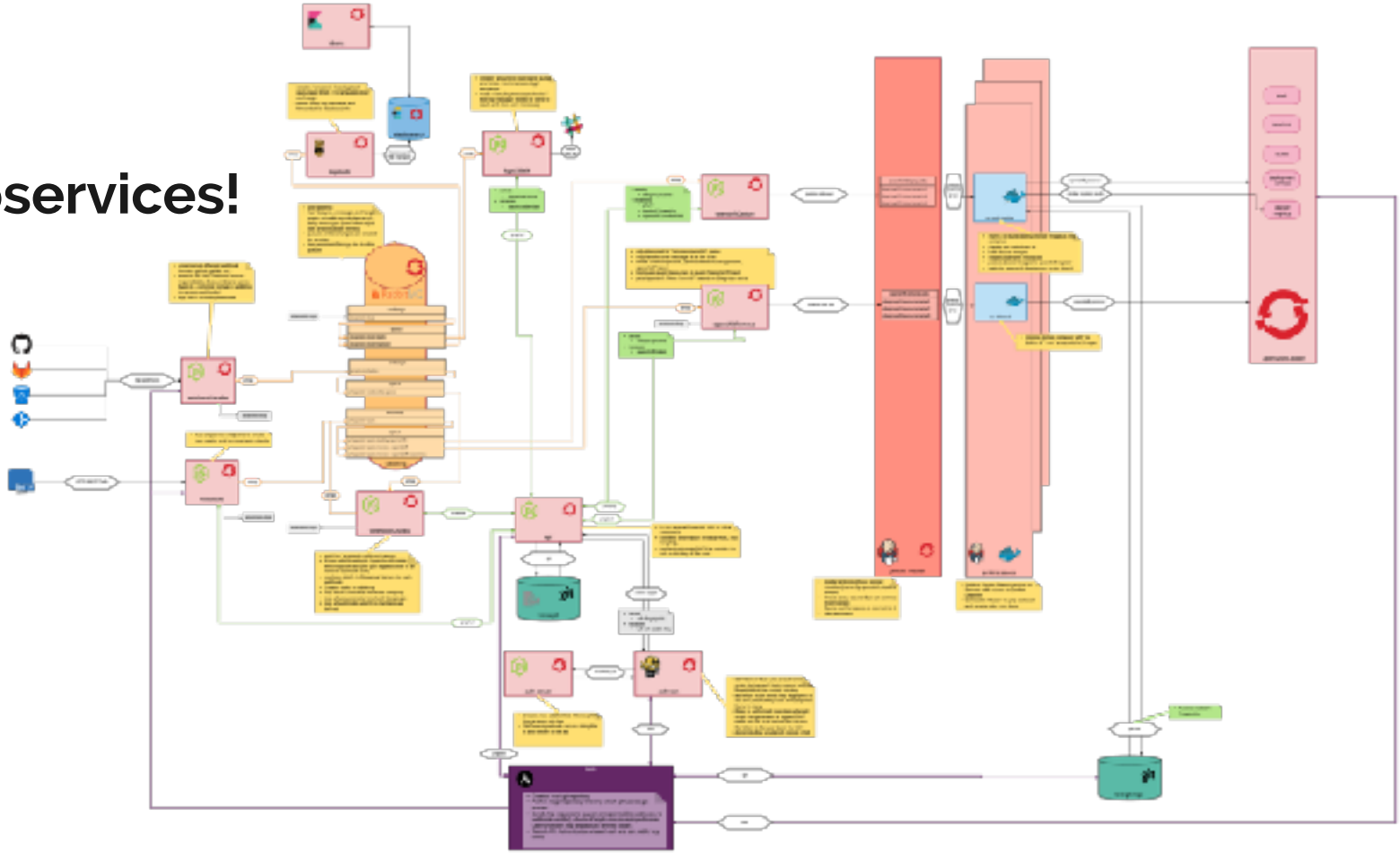
Iterations

- 2017
  - First Website running on Docker!
  - Eureka! This actually works!
  - Open Source?
  - Open Source! - Lagoon
  - Default stack for new projects hosted with us
- 2018
  - Project is gaining traction
  - CLI Tool
  - The long awaited UI
  - and much more (it’s just September now)

Lagoon?

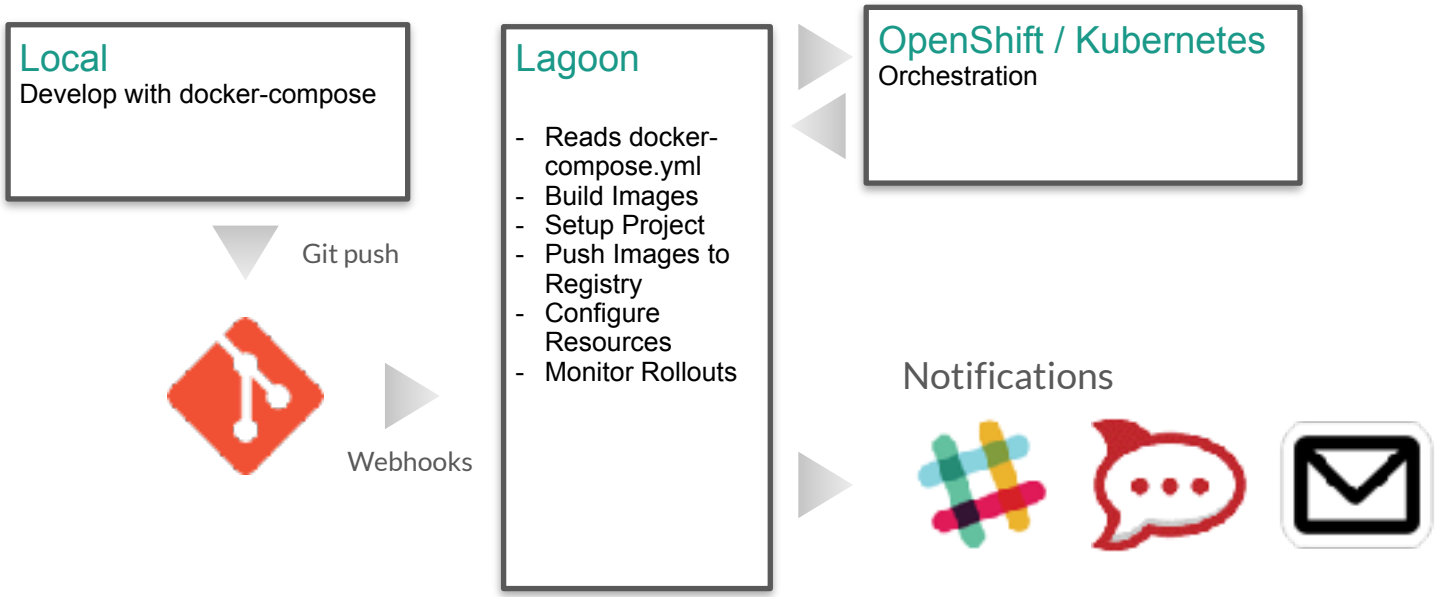
- 4. Iteration of our hosting stack
- Microservices
- Deployment pipeline for Drupal and other web projects
- Local development environment

Microservices!



TL;DR

More Details



Why open source?

Since our beginnings, it has troubled us to see an open source project like Drupal being hosted on proprietary hosting platforms. Today, we are making conscious decision to change that.

- Michael Schmid , CTO amazee.io

Opensource

- Let’s look at conventional hosting stacks

Hosting Stack opensourceness?

- ✔ CMS / Drupal
- ✘ Hosting Platform
- ✔ PHP
- ✔ Nginx
- ✔ MySQL / MariaDB / PostgreSQL
- ✔ Operating System
- ✔ Linux-Kernel

Hosting Stack opensourceness with Lagoon

- ✔ CMS / Drupal
- ✔ Hosting Platform 🎉
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- ✔ MySQL / MariaDB
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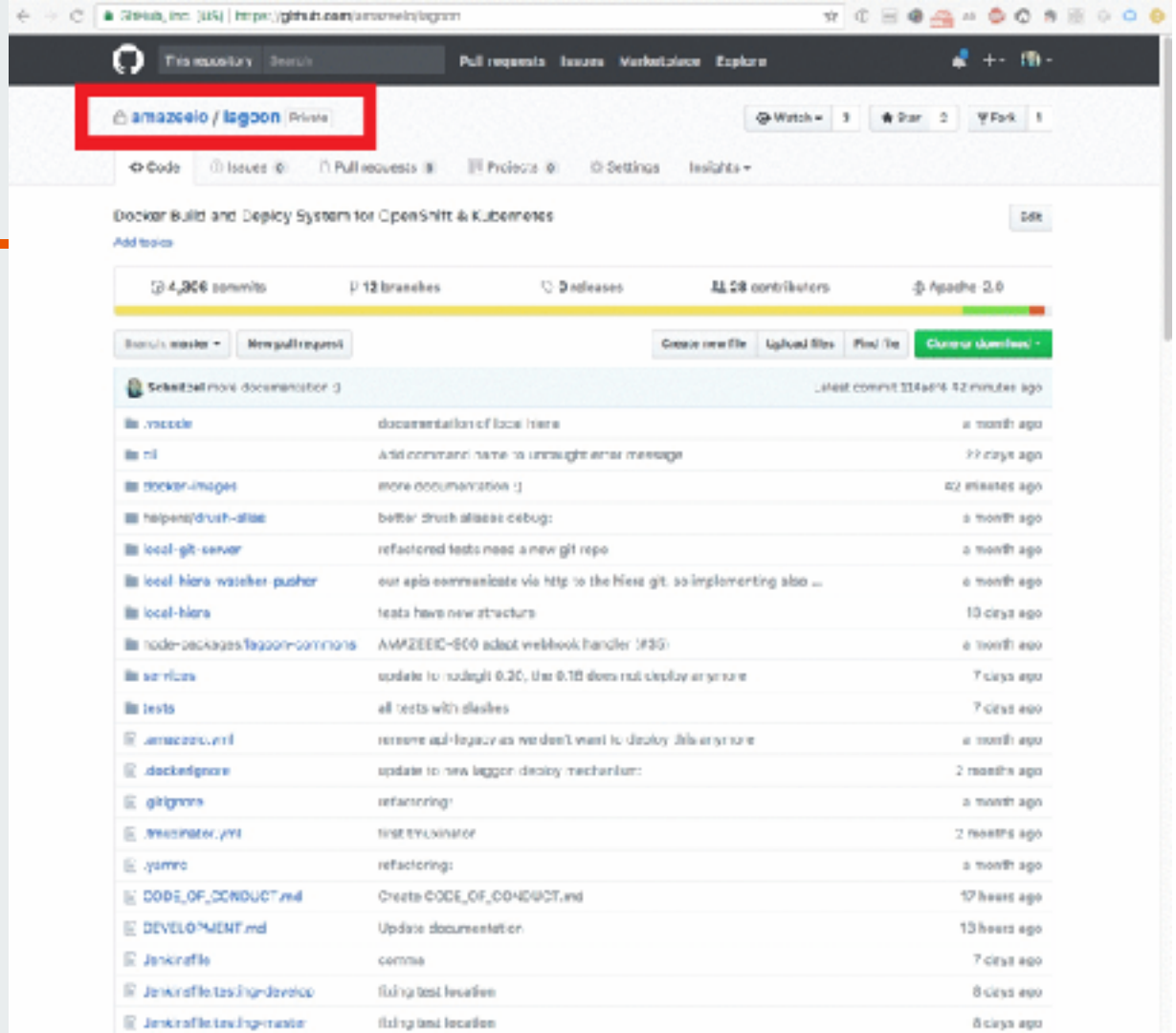
Lagoon is completely open source

- All Docker Images
- All Configurations
- Build & Deploy Scripts
- Testing Infrastructure

GitHub: github.com/amazeeio/lagoon

Use Open Source to build Open Source

- OpenShift
- Kubernetes
- Alpine Linux Docker Images
- MariaDB
- Redis
- Node.js


amazeelo / lagoon
Private
Docker Build and Deploy System for OpenShift & Kubernetes
4,906 commits
12 branches
3 releases
28 contributors
Apache 2.0

What happened afterwards?

But your code is open... isn't that insecure?

— someone

When your product is free how are you going to make money?

— a human being

Trust & Transparency

We can just run it our own!

— potential customer

We can just run it our own!

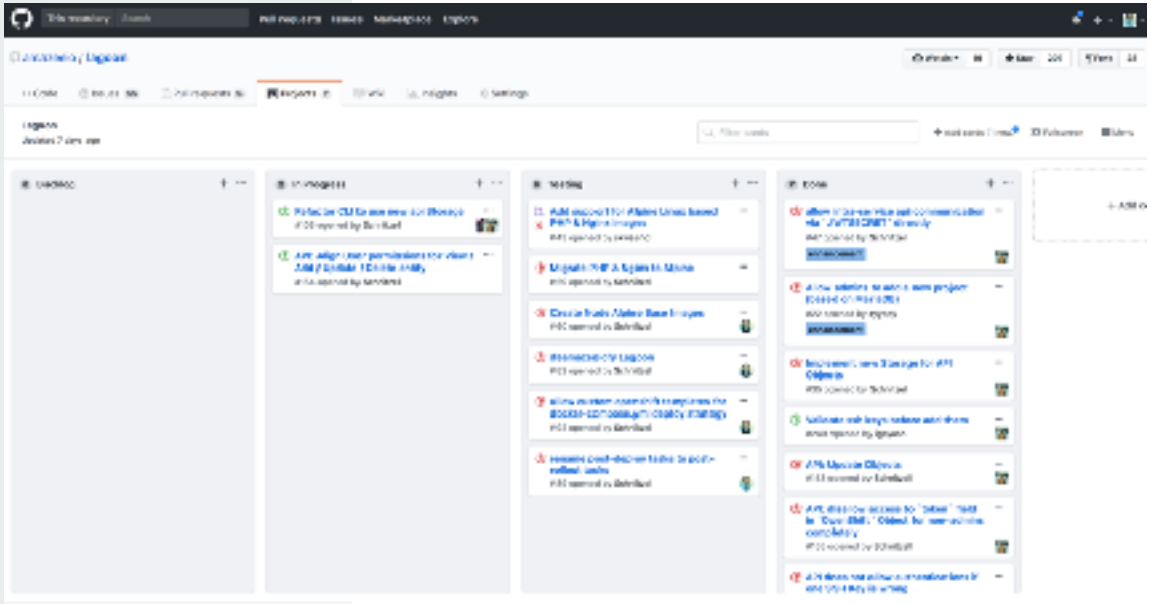
— potential customer

YES!

— our team

Good Things

- Everyone sees the status of the development



Good Things

- Big Problems get more visibility (and get resolved quicker)
- A fix of one customer can help another
- Public Roadmap
- Ideas Space 🎉 - Feature Requests
- More Interaction with your customers

Challenges

- But why is there your company name all over the place?
  True, let's fix it!

Challenges

- Telling people that it is open source and that they can change it and open a pull request :)
- Not everyone is happy with having all his comments openly available
- People expect everything we do is open source (even the legacy things)
- Think trough your code more - make sure the next person also understands the code

Challenges

- Putting a price tag on open source work - e.g. Feature requests for customer projects

One year in - An inside view

1 Year+

- 357 closed Pull Requests
- 106 Open Issues (yes, that's a lot!)
- 41 forks
  There are actually people running a fork!
- 23 contributors

1 year +

People want to use it

Exceeding our expectations

More than just seeing the code

Pull Requests are coming in!

All happens in the open

Hiring people to work on an open source ❤

Ask yourself: Could others benefit from your work if you just open source it?

Maybe your code could be the shoulder people can stand on in the future!

Thank you for your attention!

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