



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, amaze.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

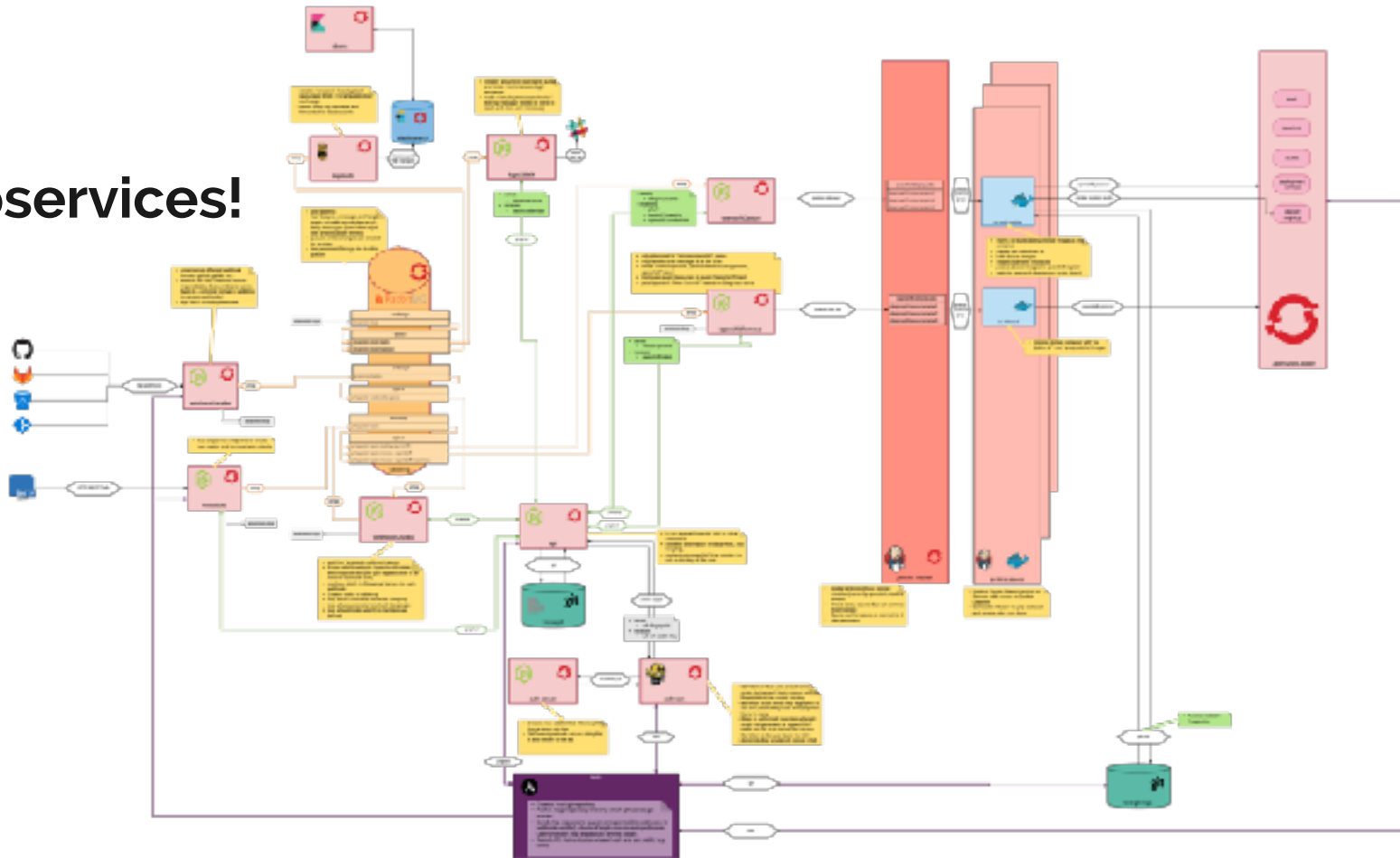
- 2017
 - First Website running on Docker!
 - Eureka! This actually works!
 - Open Source?
 - Open Source! - Lagoon
 - Default stack for new projects hosted with us
- 2018
 - Project is gaining traction
 - CLI Tool
 - The long awaited UI
 - and much more (it's just September now)



Lagoon?

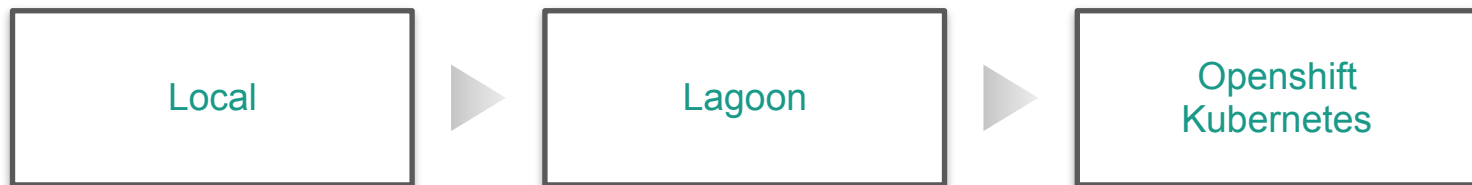
- 4. Iteration of our hosting stack
- Microservices
- Deployment pipeline for Drupal and other web projects
- Local development environment

Microservices!

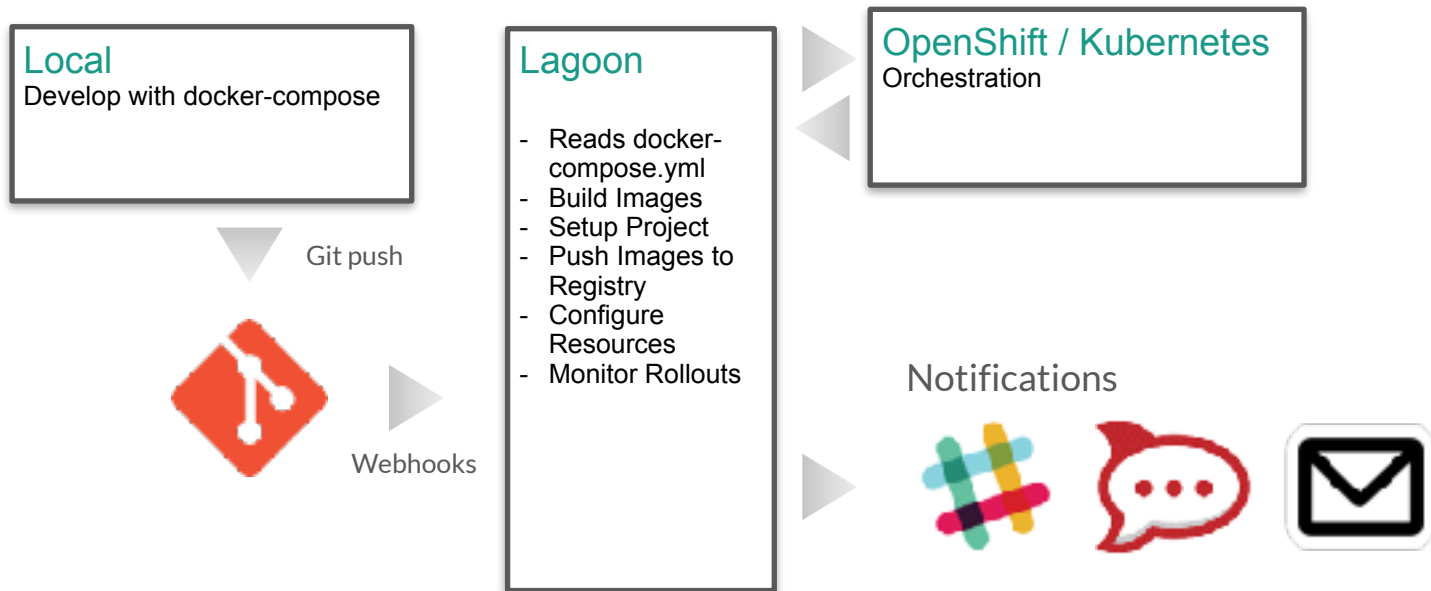




TL;DR



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 opensource-ness?

- ✓ CMS / Drupal
- ✗ Hosting Platform
- ✓ PHP
- ✓ Nginx
- ✓ MySQL / MariaDB / PostgreSQL
- ✓ Operating System
- ✓ Linux-Kernel



Hosting Stack opensource-ness with Lagoon



- ✓ CMS / Drupal
- ✓ Hosting Platform 🎉
- ✓ PHP
- ✓ Nginx
- ✓ MySQL / MariaDB
- ✓ Operating System
- ✓ Linux-Kernel



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

amazon / lagoon Private

Watch 3 Star 2 Fork 1

Code Issues Pull requests Projects Settings Insights

Docker Build and Deploy System for OpenShift & Kubernetes

Add topics

4,906 commits 12 branches 3 releases 28 contributors Apache 2.0

Search master New pull request Create new file Upload files Pin file Compare branches

Selected more documentation.g Latest commit 114ad94 12 minutes ago

.vscode	documentation of local here	a month ago
ci	Add command name to uncaught error message	22 days ago
docker-images	more documentation.g	42 minutes ago
helpers/drush-alias	better drush alias debug	a month ago
local-git-server	refactored tests need a new git repo	a month ago
local-here-watcher-pusher	our api communicate via http to the here git, so implementing also ...	a month ago
local-here	tests have new structure	10 days ago
node-packages/lagoon-commons	AWAZEEIC-800 adapt webhook handler (#35)	a month ago
services	update to nodegit 0.20, the 0.18 does not display any more	7 days ago
tests	all tests with aliases	7 days ago
amazeeic.yml	remove old legacy as we don't want to deploy this any more	a month ago
dockerignore	update to new lagoon deploy mechanism	2 months ago
gitignore	refactoring	a month ago
watcher.yml	test try watcher	2 months ago
yamlc	refactoring	a month ago
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	17 hours ago
DEVELOPMENT.md	Update documentation	13 hours ago
Jenkinsfile	comma	7 days ago
Jenkinsfile-testing-develop	fixing test location	8 days ago
Jenkinsfile-testing-master	fixing test location	8 days ago



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!

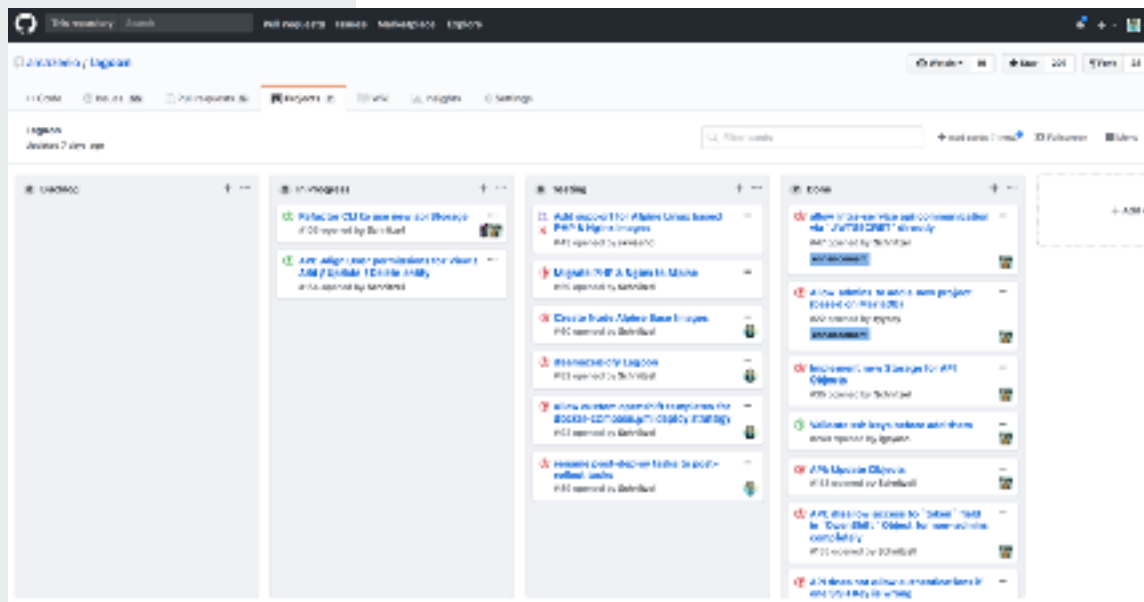
— potential customer

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!

deamazeiofy Lagoon #82



Schnitzel opened this issue on 26 Oct 2017 · 1 comment



Schnitzel commented on 26 Oct 2017 • edited ▾

Owner



- `.amazeeio.yml -> .lagoon.yml`
- `.amazeeio.env.$BRANCH -> .lagoon.env.$BRANCH`
- `con.amazeeio -> lagoon`
- everything else



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 through 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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