



And suddenly - Open Source!

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

DevOpsMeetup Zurich
Bastian Widmer - @dasrecht | @amazeeio



Overview

- Ohai!
- A bit of history
- What are you doing anyways?
- Why open source?
- Challenges and Benefits
- Discussion / Questions



\$> whoami bastian

System Engineer at amaze.io

Containers in Production 🧟🤖

@dasrecht

Too many side projects!*

- DevOpsDays Zurich
- CommunityRack.org
- Running TOR-exit-nodes for fun
- Open Air Cinema(!)
- Working with real Containers

* this list is not complete!

\$>







Who is a contributor to an open source project?

Who uses open source software daily?

And who can make money by using open source software in their daily work?

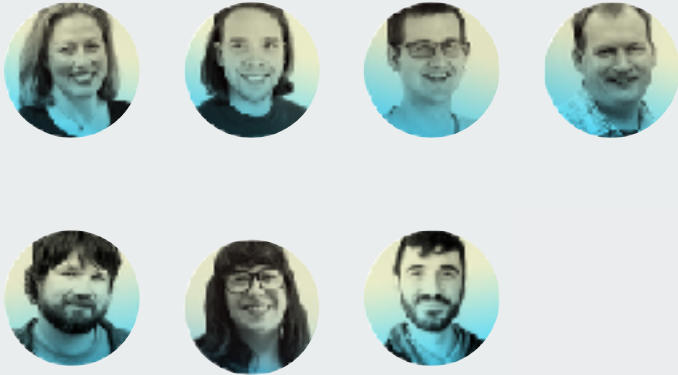
**Let's agree:
Open source is everywhere!**



So, amaze.io?



amazee.io



- Hosting Platform tailored to Drupal
- Hosting since 8 years
- We're a remote team
 - Zurich
 - Barcelona
 - Austin, TX
 - Portland, OR
 - Melbourne
- Hosting in 16 different countries
- Cloud and On-Premises

Open source is a process

We also started with our secret sauce



2014

- Hosting with a partner company
- They manage things
- Lack of flexibility
- The cutting edge isn't cutting it anymore
- Building up knowledge instead of relying on the partner



2015

- Full rebuild of the hosting infrastructure
- Configuration management
- fully integrated CI pipelines
- Local Dev Environment built with the same tools



2016

- Ugh vagrant boxes!!!
- 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

- **Why using Containers just locally?**

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





2017
2018

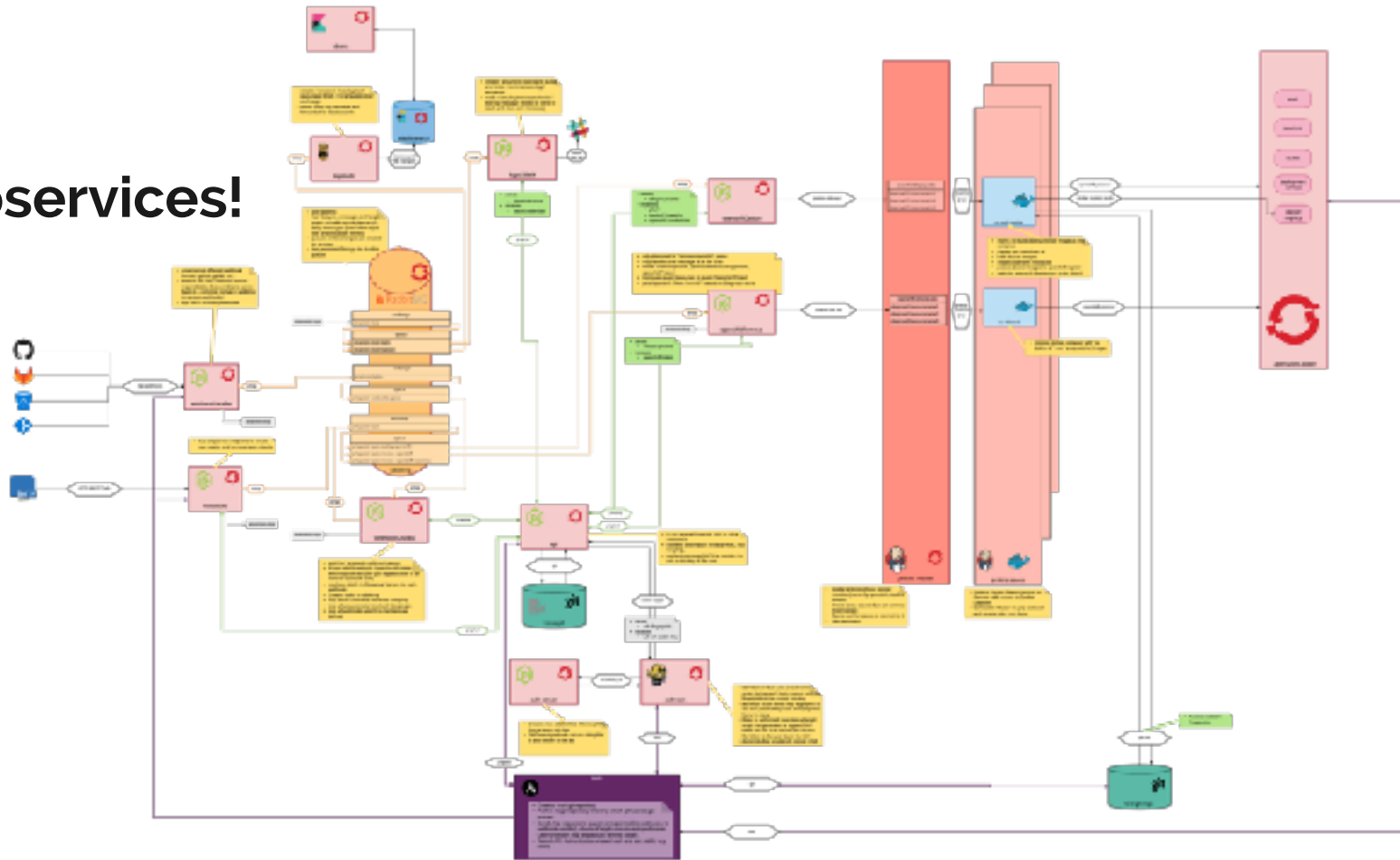
- 2017
 - First Website running on Docker!
 - Eureka! This actually works!
 - Open Source?
 - Open Source! - Lagoon
- 2018
 - Working towards V1.0.0 Release



Lagoon?

- 4. Iteration of our Hosting Stack
- Microservices
- Deployment Pipeline for Drupal Web Projects
- Local Development Environment

Microservices!

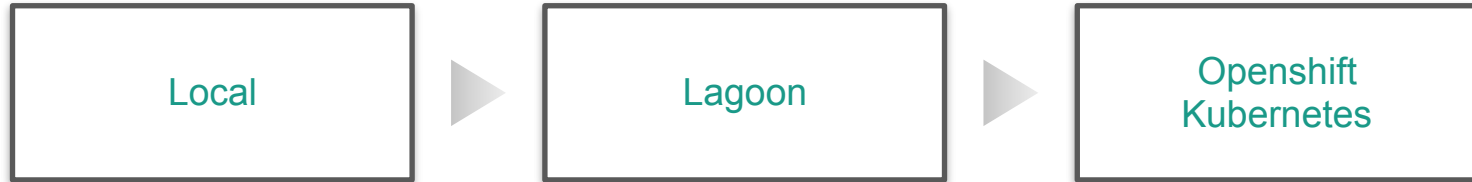


**Wouldn't it be cool when we define our
infrastructure directly in our project repository?**

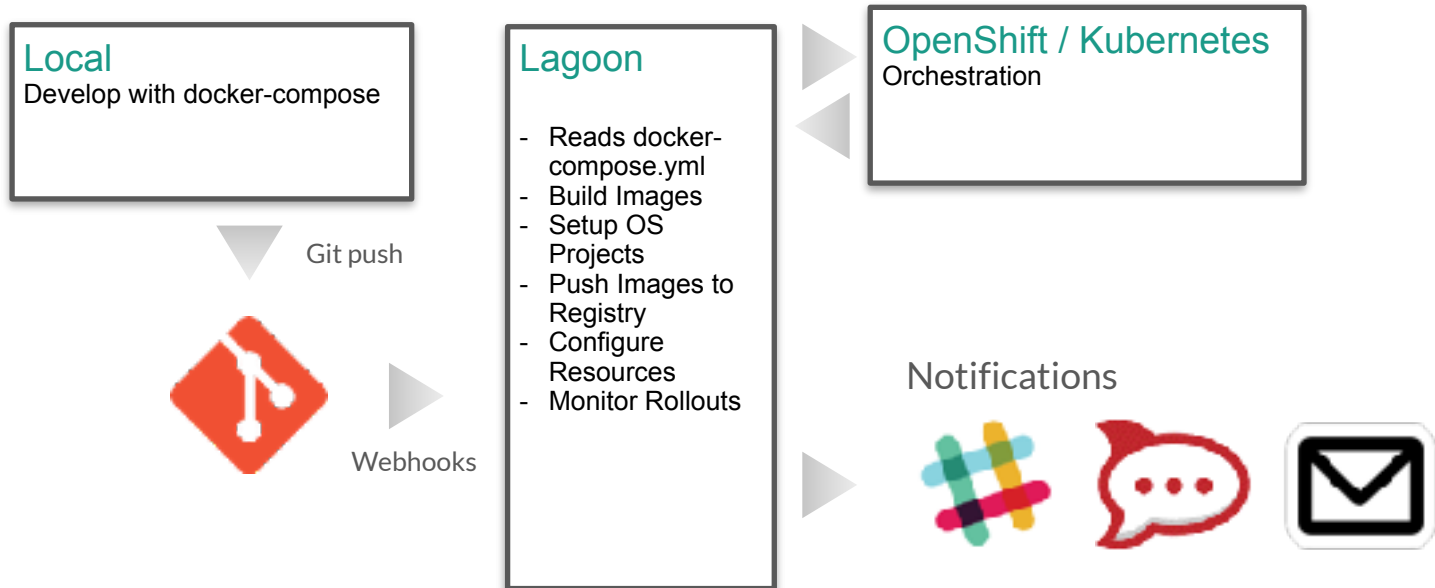
— one of my team mates, 2012



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 amaze.io



#Opensourceness



Hosting Stack Opensourceness?

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



Lagoon is completely open source

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

GitHub: github.com/amazeeio/lagoon

Hosting Stack Opensourceness with Lagoon



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



Use Open Source to build Open Source

We are also just standing on the shoulders of giants:

- OpenShift
- Kubernetes
- Alpine Linux Docker Images

Docker Build and Deploy System for OpenShift & Kubernetes

SDK

Add topic

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

Branches master New pull request Create new file Upload files Find file Compare branches

Schubert more documentation j ... latest commit 114ad96 12 minutes ago

.vscode	documentation of local files	a month ago
ci	Add command name to console error message	17 days ago
docker-images	more documentation j	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-hiera-watcher-pusher	our api communicate via http to the hiera git, so implementing abo ...	a month ago
local-hiera	tests have new structure	10 days ago
node-packages/leggon-commons	AMP2EEIC-600 adapt webhook handler (P30)	a month ago
services	update to kubectl 0.20, the 0.18 does not display any more	7 days ago
tests	all tests with aliases	7 days ago
amazseio.yml	remove old legacy as we don't want to deploy this any more	a month ago
dockerignore	update to new leggon 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 levelen	8 days ago
Jenkinsfile-testing-master	fixing test levelen	8 days ago



What happened afterwards?





no-reply-aws@amazon.com

Dear AWS Customer,

This is Lester here.

Your AWS Account is compromised. Please review the following notice and take immediate action to secure your account.

**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

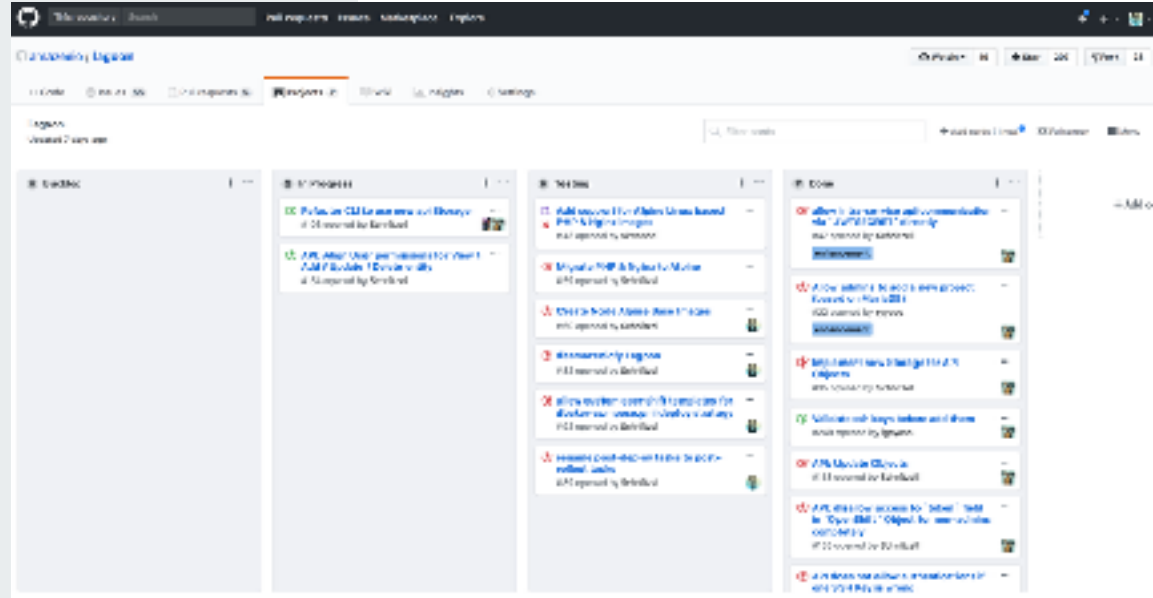


We can just run it our own!

— potential customer


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

 Closed 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`
- `cos.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 in the open
- 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

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!

Bastian Widmer - @dasrecht | @amazeeio



2-3 May
Zuerich-Winterthur

Tickets: devopsdays.org



