



# And suddenly - Open Source!

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

Web 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!



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**Who is a contributor to an open source project?**

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**And who can pay their bills thanks to open source software?**





# Open source is everywhere!

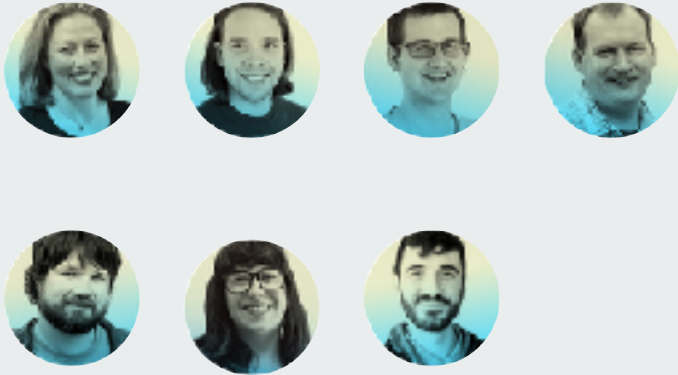
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So, amaze.io?



# 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

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**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

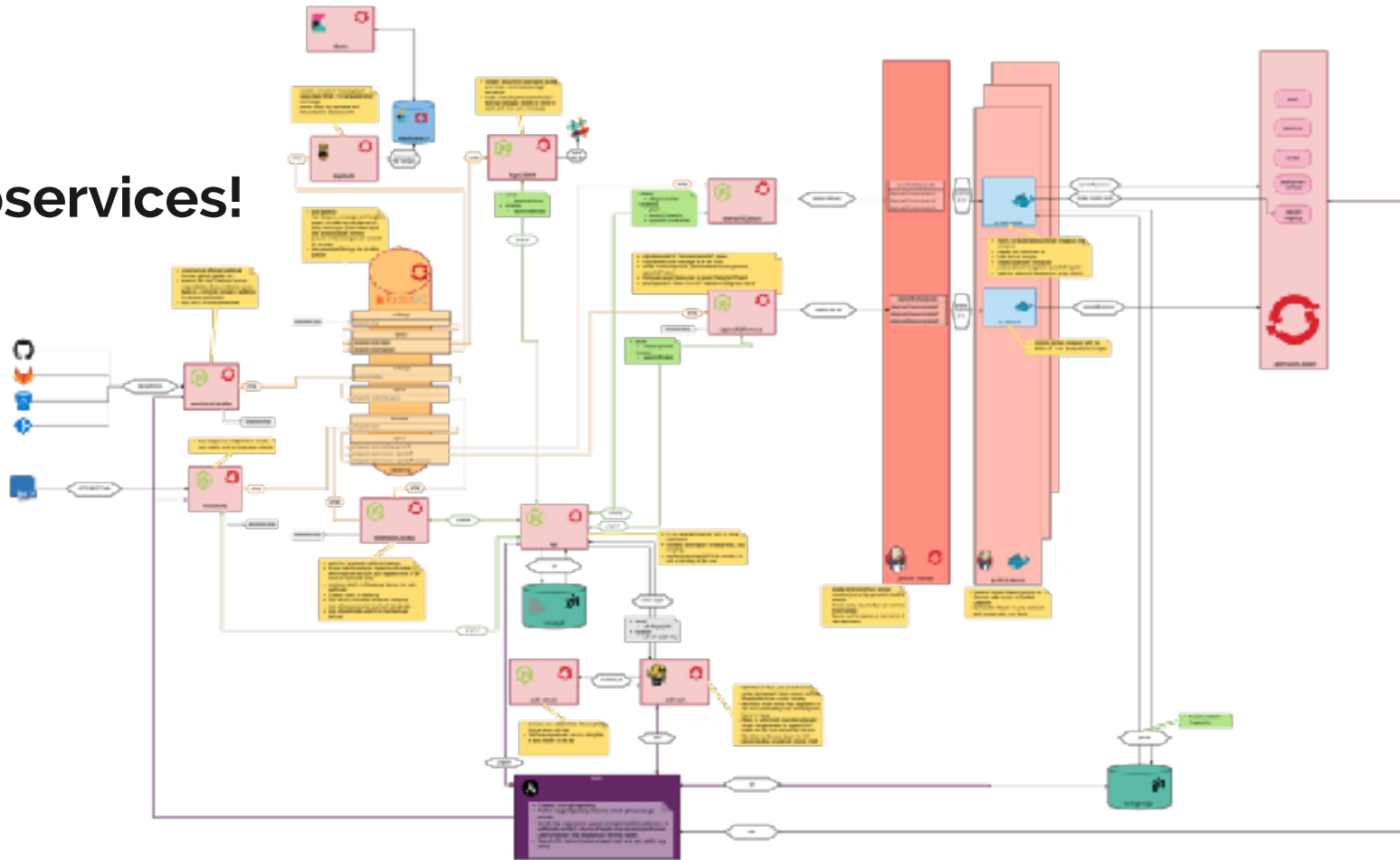




# Lagoon?

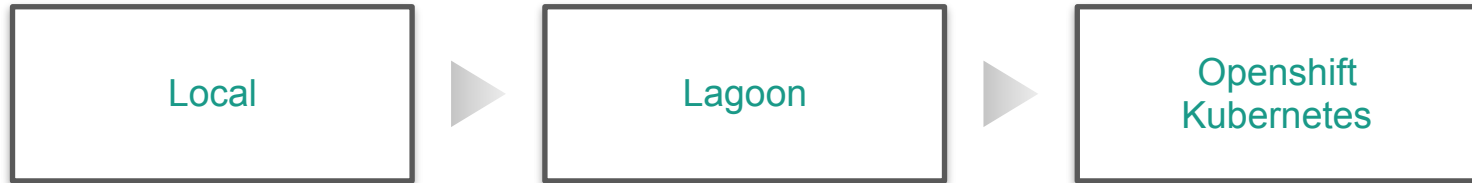
- 4. Iteration of our Hosting Stack
- Microservices
- Deployment Pipeline for Drupal Web Projects
- Local Development Environment

# Microservices!

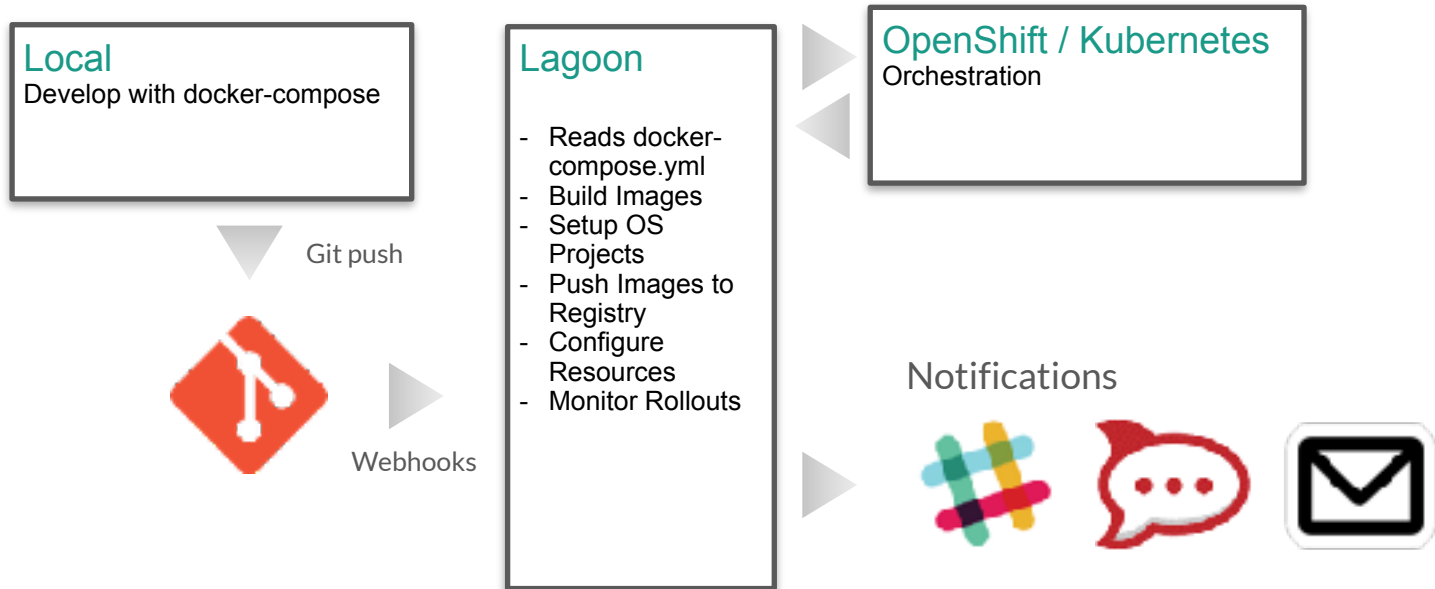




# TL;DR



# More Details



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**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

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**#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](https://github.com/amazeeio/lagoon)

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# 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

Schitzel more documentation j ...last commit 114d16 12 minutes ago

.vscode	documentation of local files	a month ago
ci	Add command name to screenshot 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 (FS)	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



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**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

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

— a human being

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# Trust & Transparency



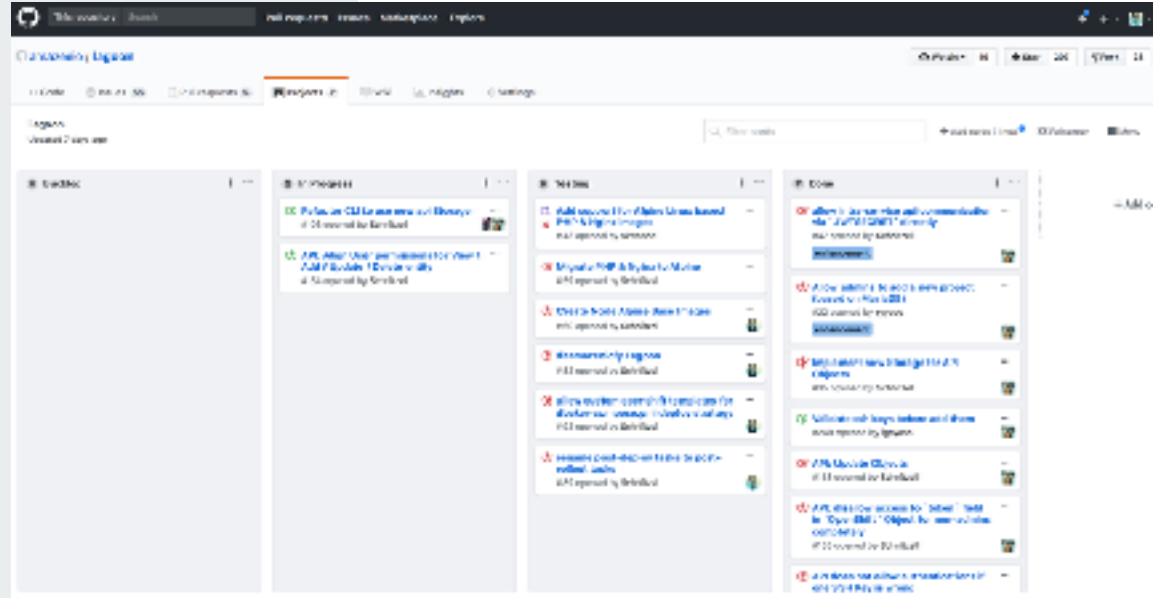
# We can just run it our own!

— 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

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



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

# Thank you for your attention!

Bastian Widmer - @dasrecht | @amazeeio



