



CLOUD NATIVE  
NORDICS

# Building and Scaling Cloud Native Nordics Tips, Tricks, and Lessons Learned

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[www.cloudnativenoridcs.com](http://www.cloudnativenoridcs.com)

CloudNativeCon+KubeCon NA 2019

# WHO ARE WE?



**Lucas Käldström**

@kubernetesonarm



**Kasper Nissen**

@phennex

# LUCAS KÄLDSTRÖM (@kubernetesonarm)

CNCF Ambassador / now Freshman at Aalto University in Finland

Running the Finnish CNCF meetups

Certified Kubernetes Administrator

Former SIG Cluster Lifecycle & WG Component Standard chair

Running *luxas labs*, Contractor for Weaveworks

Kubernetes on ARM (+more) / kubeadm / Weave Ignite creator



# KASPER NISSEN (@phennex)

**Cloud Architect / Site Reliability Engineer at Lunar**

CNCF Ambassador

Certified Kubernetes Administrator

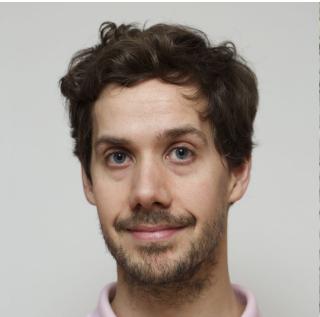
Cloud Native Aarhus (Cloud Native Copenhagen)

Cloud Native Nordics

Blog: [kubecloud.io](http://kubecloud.io)



# IT'S NOT ONLY US!



# AGENDA

- Running a meetup? Easy, right?
- Experiences running meetups standalone (Helsinki/Aarhus)
- Introducing Cloud Native Nordics
- Our toolbox
  - *meetup-kit*
  - *workshopctl*
  - Community website (frontend, backend, infrastructure)
- Questions?

# Running a meetup? Easy, right?







# RUNNING A MEETUP

- Find sponsors / speakers (ALL THE TIME!)
- Once the meetup's done, you gotta start planning the next one
- Recordings? Recordings!
- Visibility? Graphical Profile (gotta look solid)
- Building a community (inclusiveness, etc.)



# Our stories



# CLOUD NATIVE & KUBERNETES FINLAND

- Summer of 2016: I started thinking about running a meetup
- Summer of 2017: Found two co-organizers: Annie and Teemu
- October 2017: First meetup in Helsinki
  - ... Running meetups bimonthly
- December 2018: Started planning Cloud Native Nordics with Kasper
- January 2019: Expanded to Tampere (with local co-organizers)
- October 2019: Expanded to Turku (with local co-organizers)
- Fall 2019: Working on reusable tools for communities

# CLOUD NATIVE & KUBERNETES FINLAND

- Helsinki (870 members, 25 months)
  - Meetups: 11
  - Speakers: 26
  - Sponsors / Speaker Providers: 15 / 12
  - Total / Unique / Average RSVPs: 888 / 452 / 80
- Tampere (193 members, 10 months)
  - Meetups: 5
  - Speakers: 14
  - Sponsors / Speaker Providers: 9 / 5
  - Total / Unique / Average RSVPs: 200 / 114 / 40



# CLOUD NATIVE & KUBERNETES FINLAND

- Lessons learned

- Finding speakers (especially in the beginning) is a lot of work
- Creating a graphical profile is very useful, but can be challenging to get right
- Creating some structure / boilerplate is truly helpful
- Livestreaming / recording has many pitfalls
- Hard to balance content for also newcomers => "standard intros" & workshops
- Networking in the middle of the agenda

# CLOUD NATIVE AARHUS

- Started in May 2017
- Aarhus
  - Population: ~350k people
  - 2nd largest city in Denmark
- So far
  - 24 meetups
  - 933 members
  - Avg. 56 RSVPs



# CLOUD NATIVE AARHUS

- Spring 2016: I wrote my master thesis; “KubeCloud - A Small Scale Tangible Cloud Computing Environment”
  - Presented in the local Google Developer Group
- December 2016: Got hired at Lunar Way (now Lunar)
  - How do we managed microservices? We need to redo the infrastructure...
- December 2016: CloudNative-dk Slack Community
- May 2017: First Cloud Native Aarhus
  - ... running a lot of meetups, we actually did 3 meetups in a month.
- December 2018: We set sail to the Cloud Native Nordics journey

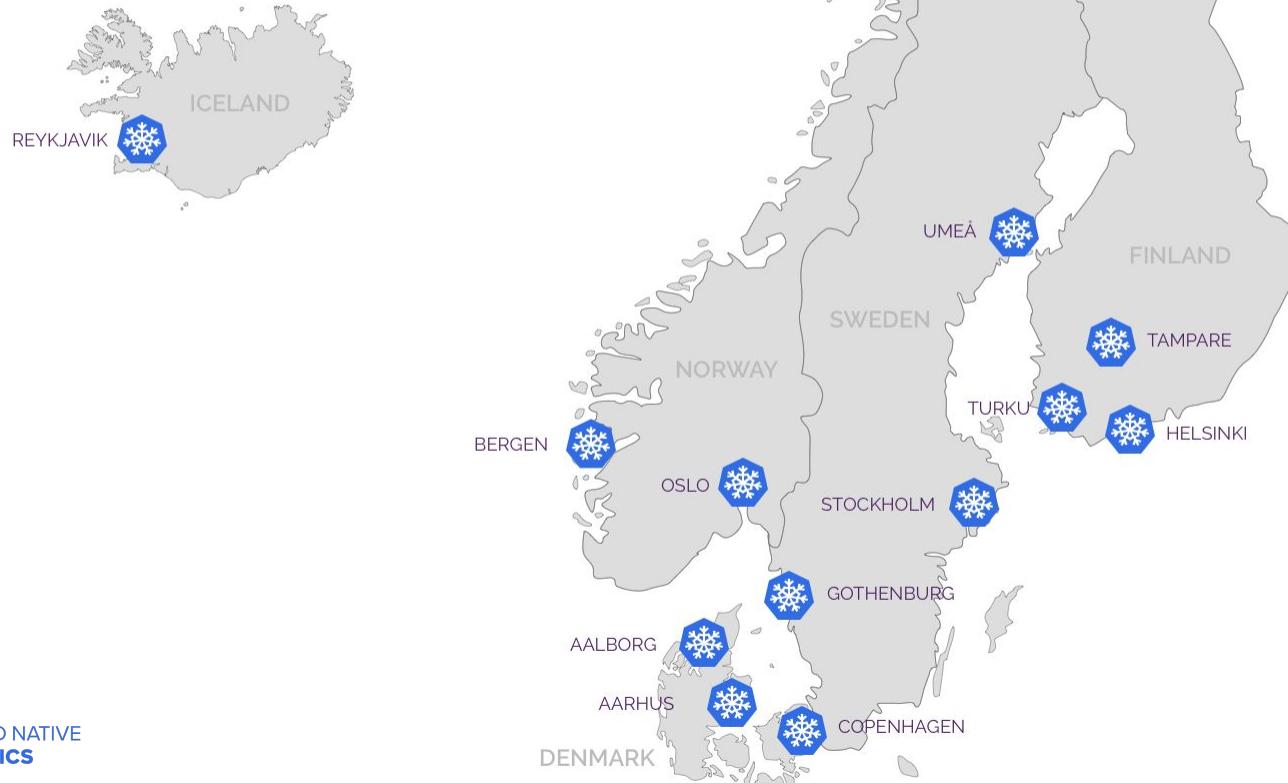
# CLOUD NATIVE AARHUS

- Lessons learned
  - The need for different tracks
    - Started out with 101's and kept digging deeper
    - But new members joined continuously
    - We call them; Cloud Native Aarhus Hack Nights
  - Focus on organizers from multiple companies
    - The need for more hands to keep the momentum going

# Introducing Cloud Native Nordics



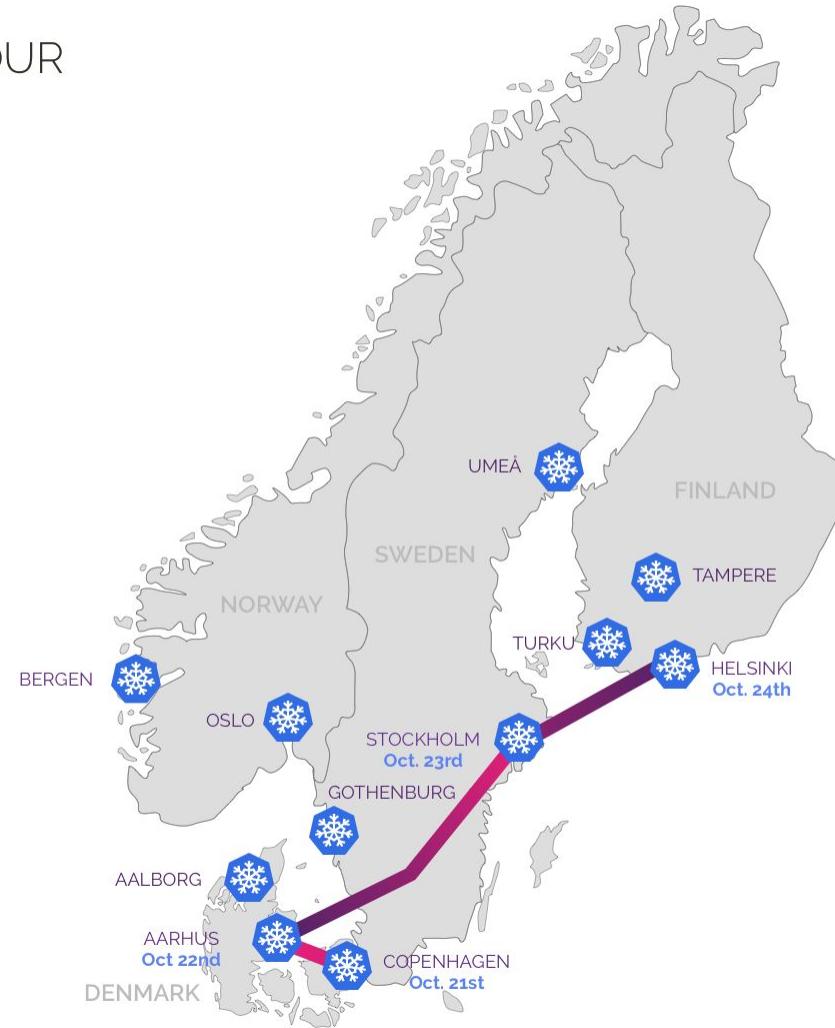
# MAP



# CLOUD NATIVE NORDICS TOUR

OCTOBER 2019 (21.-24.)

Russ Miles - ChaosIQ.io  
Alexander Sowitzki, Loodse (-Stockholm)



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# STATS

12

Groups

92

Total number of  
meetups

4774

Total RSVPs

51

Average RSVPs

5631

Members

2658

unique attendees



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#CloudNativeNordics

@phennex & @kubernetesonarm

# HOW ARE WE HELPING EACH OTHER?

- Monthly Community Calls (public, recorded)
- Unified Brand (slides, t-shirts, colors, etc.)
- A lot of common tooling, and guidelines
- Slack Community
- Website (discoverability)
- Speakers (roadshows, collaborative networks)
- Possibly (future) Kubernetes Community Day
  - **Reach out if interested!**

# Learnings, Tips, and Tricks



# TOOLBOX INTRODUCTION

- meetup-kit
- workshopctl
- Community website
  - Open infrastructure
  - Reference stack



# MEETUP-KIT

- **MeetOps** — Meetups by Pull Request!
- <https://github.com/cloud-native-nordics/meetups>
  - Yet to-be-refactored into meetup-kit
- YAML engineering
  - We haven't found the optimal developer experience yet... for now check in YAML
- Automatically fetches information from the [meetup.com](https://meetup.com) API
- Generates README files & aggregates data for the website

```
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  presentations:  
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      speakers: null  
      title: Arrive at the venue, sit down and network with others  
    - duration: 5m0s  
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      speakers: null  
      title: Introductory words from the venue sponsor for this time, Nokia  
    - duration: 15m0s  
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      speakers:  
        - luxas  
      title: Updates from the Cloud Native Nordics Community  
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        - russmiles  
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    - duration: 30m0s  
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      speakers:  
        - alexandersowitzki  
      title: 'Building KubeOne: yet another Kubernetes cluster management tool'  
    - delay: 10m0s  
      duration: 30m0s  
      slides: https://drive.google.com/open?id=1C9BMs00-lngcSHSAc219HWBdNHZmeucG  
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        - gergelycsatari  
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    - company: nokia  
      role: Venue  
    - company: luxaslabs  
      role: Other  
    - company: cncf  
      role: Other
```



## ⌚ October: Chaos Engineering & KubeOne

- Date: 24 October, 2019 at 18:00 - 21:00
- Meetup link: <https://www.meetup.com/Kubernetes-Finland/events/264646130>
- Attendees (according to meetup.com): 103
- Venue sponsor: [Nokia](#)
- Other sponsor: [luxas labs](#)
- Other sponsor: [Cloud Native Computing Foundation \(CNCF\)](#)

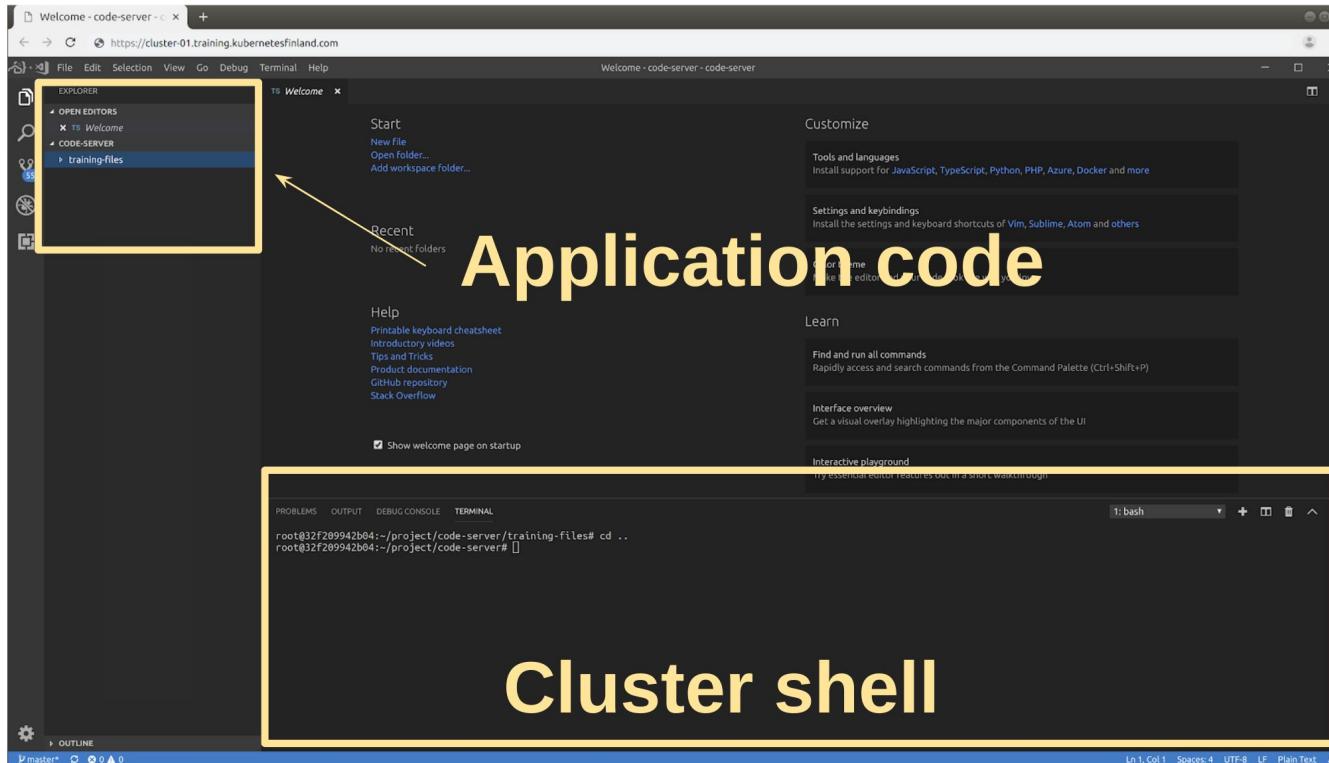
## ⌚ Agenda

- 18:00 - 18:10: Arrive at the venue, sit down and network with others
- 18:10 - 18:15: Introductory words from the venue sponsor for this time, Nokia
- 18:15 - 18:30: Updates from the Cloud Native Nordics Community
  - Lucas Käldström @luxas, CNCF Ambassador, [luxas labs](#), [Contact](#)
- 18:30 - 19:00: How to be (successful at being) wrong
  - Russ Miles @russmiles, CEO, [ChaosIQ](#)
- 19:00 - 19:30: Networking, food, drinks
- 19:30 - 20:00: Building KubeOne: yet another Kubernetes cluster management tool
  - Alexander Sowitzki @eqrx, [Loodse](#)
- 20:10 - 20:40: How to make Kubernetes Real Time for Telcos
  - Gergely Csatári @CsatariGergely, [Nokia](#)
  - Slides: <https://drive.google.com/open?id=1C9BMs00-lngcSHSAc219HWBdNHZmeucG>
- 20:45 - 21:00: Networking

# WORKSHOPCTL

- Standardized, user-friendly and reproducible way of running workshops
- **workshopctl init --clusters 40 --provider digitalocean my-workshop**
  - *my-workshop.yaml* created, with relevant info
- **workshopctl gen my-workshop**
  - Manifests generated => git push
- **workshopctl apply my-workshop**
  - 40 clusters created using DigitalOcean's managed k8s
  - All environments set up with VS Code accessible on a public domain
- **workshopctl delete my-workshop**

# WORKSHOPCTL ENVIRONMENT



- Password-protected
- Unique per attendee
- Running in a Pod
- *kubectl* access
- *docker* access
- *helm* installed
- k8s syntax highlight
- Exercise READMEs
- Solutions on-demand
- Full Ingress support

# WORKSHOPCTL

TODO: Add diagram



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# COMMUNITY WEBSITE

- Centralized place for all relevant Cloud Native Nordics activities
- Make it more attractive to contribute with speakers, sponsorships, etc.
- Discover closeby events
- Keep track of speakers, venues
- Build a reference architecture, to use in workshops as a simple getting started guide

# WEBSITE

<https://cloudnativenorics.com>

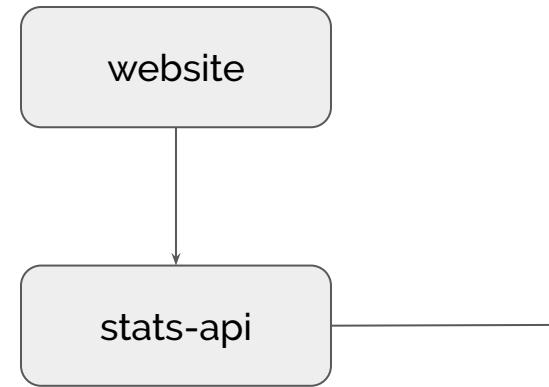


# WEBSITE: SETUP

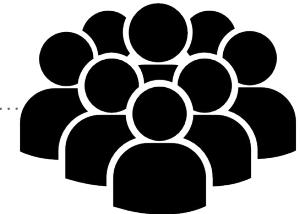
 Vue.js

 GraphQL

 GO



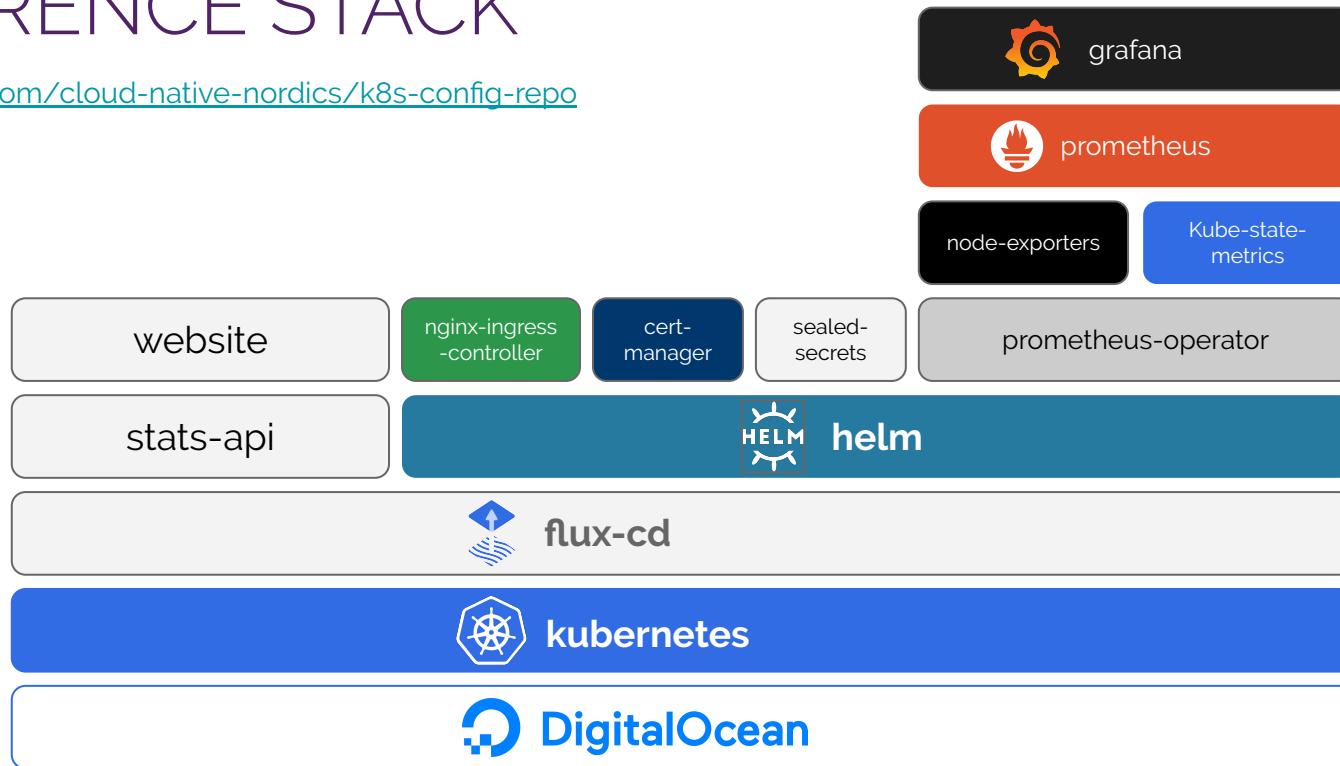
 meetup



cloud-native-nordics/meetups  
**config.json**

# REFERENCE STACK

<https://github.com/cloud-native-nordics/k8s-config-repo>



# Kubernetes -based Infrastructure for Static Sites (KISS)

<https://twitter.com/changelog/status/986084630280404992>

 Changelog  
@changelog

Follow

kubectl create deployment index.html



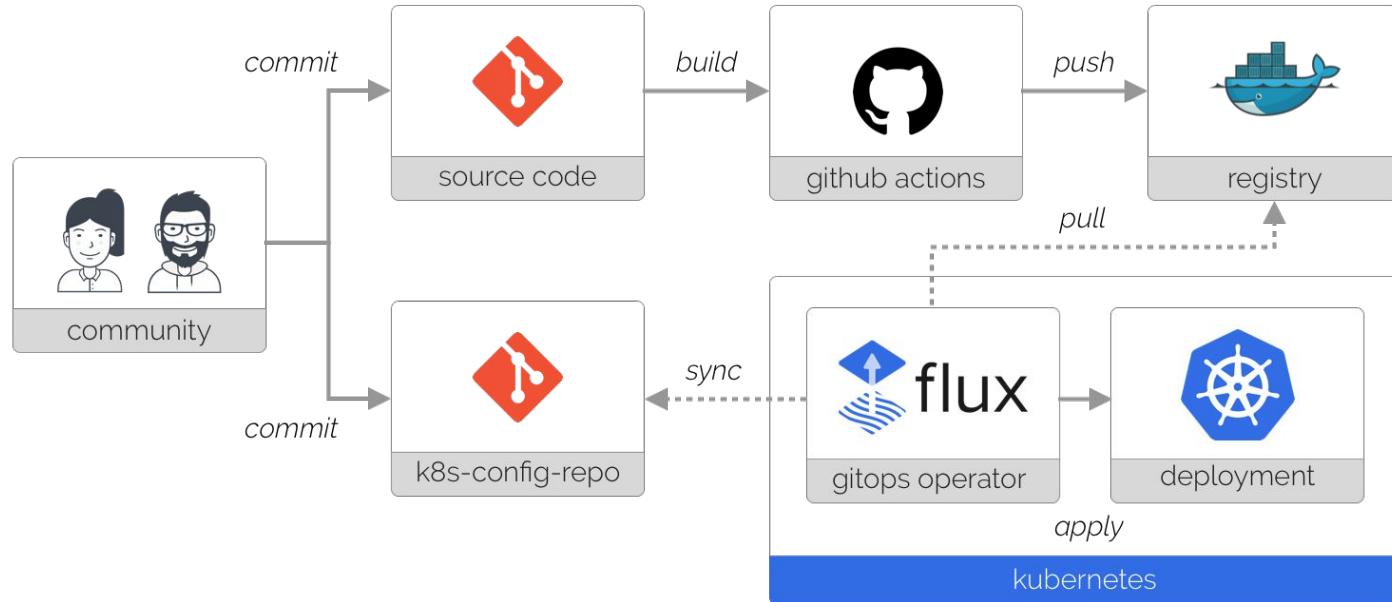
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# Kubernetes -based Infrastructure for Static Sites (KISS)

<https://twitter.com/changelog/status/986084630280404992>



# COMMUNITY INFRASTRUCTURE



# QUESTIONS?



# Thank you!

