

Maesh Online Meetup - October 2019



Maesh Online Meetup - October 2019

How To Use These Slides?

- **Browse the slides:** Use the arrows
 - Change chapter: Left/Right arrows
 - Next or previous slide: Top and bottom arrows
- **Overview of the slides:** keyboard's shortcut "o"
- **Speaker mode (and notes):** keyboard's shortcut "s"

Whoami 1/3

- Michael Matur
 - Devops & Solution Architect @ Containous
- Blacksmith on Traefik
-  @michaelmatur
-  mmatur



Whoami 2/3

- Daniel Tomcej:
 - Træfik Developer @ Containous
 -  @daniel_tomcej
 -  dtomcej



Whoami 3/3

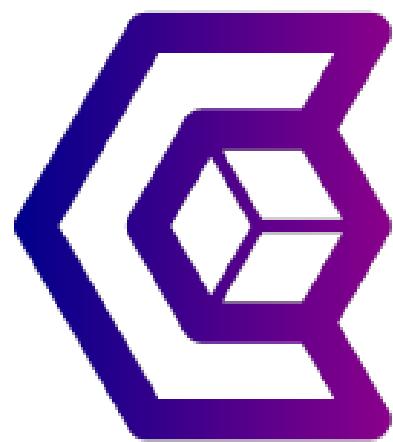
- Manuel Zapf:
 - Træfik's Solution Architect  @Containous
-  @mZapfDE
-  SantoDE



Containous

<https://containous.us>

- We Believe in Open Source
- We Deliver Traefik and Traefik Enterprise Edition
- Commercial Support
- 30 people distributed, 90% tech



What The Heck Is A Service Mesh?

A service mesh is a configurable network layer inside your cluster to handle network-based communication among your applications. It ensures that this communication is fast, reliable and secure.

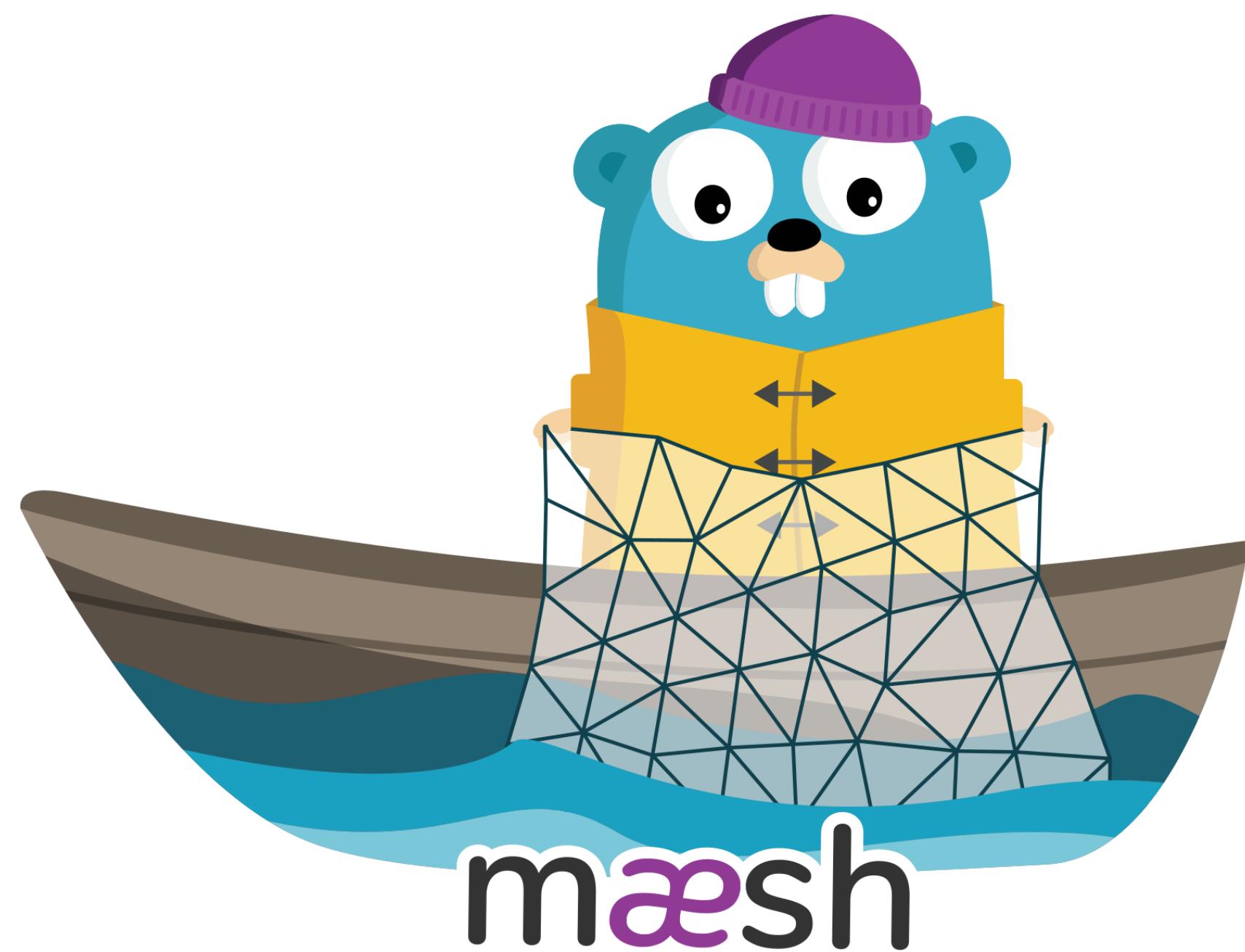
Benefits

- Provides extended functionality (Service Discovery, Load Balancing...)
- Centralized instead of having to reimplement features across Services
- Provides abstraction layer for network functions
- Traffic Control

Challenges

- Current solutions can be complex to understand
- Resource Intensive
- Slowness: Service meshes are an invasive and intricate technology
- Lock-In

Say Hello To Maesh



What Is Maesh?

Maesh is a lightweight, easy to configure, and non-invasive service mesh that allows visibility and management of traffic flow inside any Kubernetes cluster.

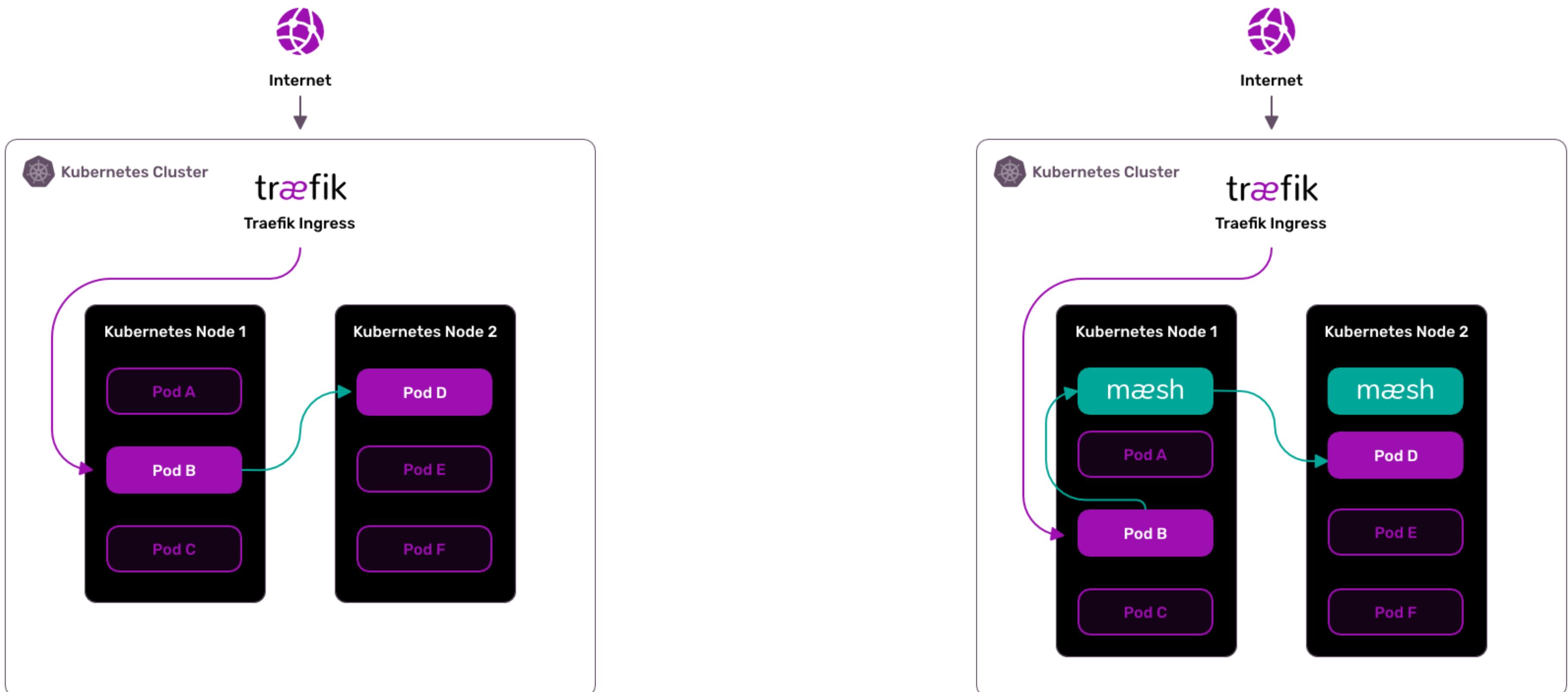
More On Maesh

- Built on top of Traefik,
- SMI (Service Mesh Interface specification) compliant,
- Opt-in by default.

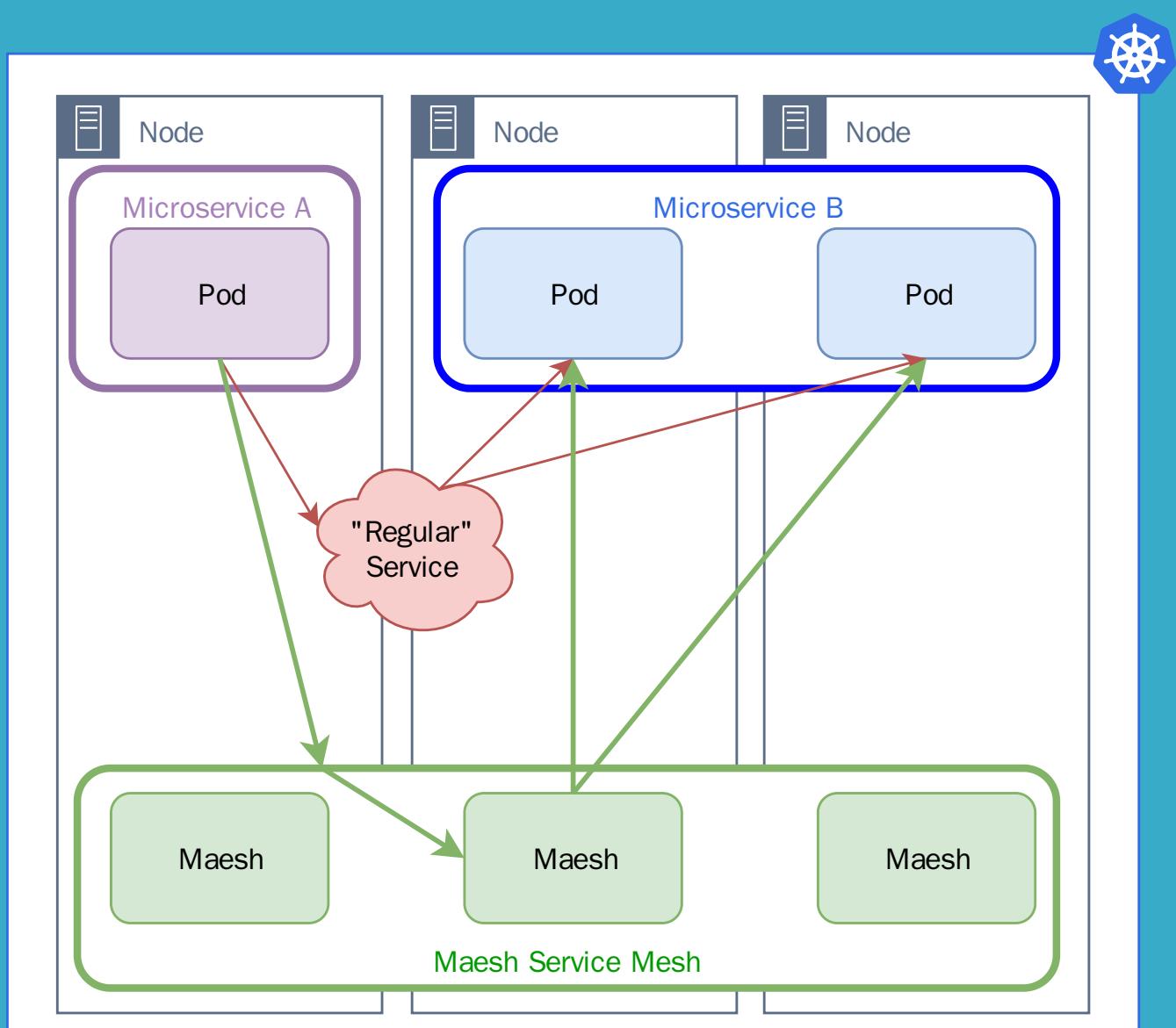
Features

- OpenTracing / Metrics
- Retries & failovers
- Circuit breakers & Rate limits
- Access controls
- Easy installation

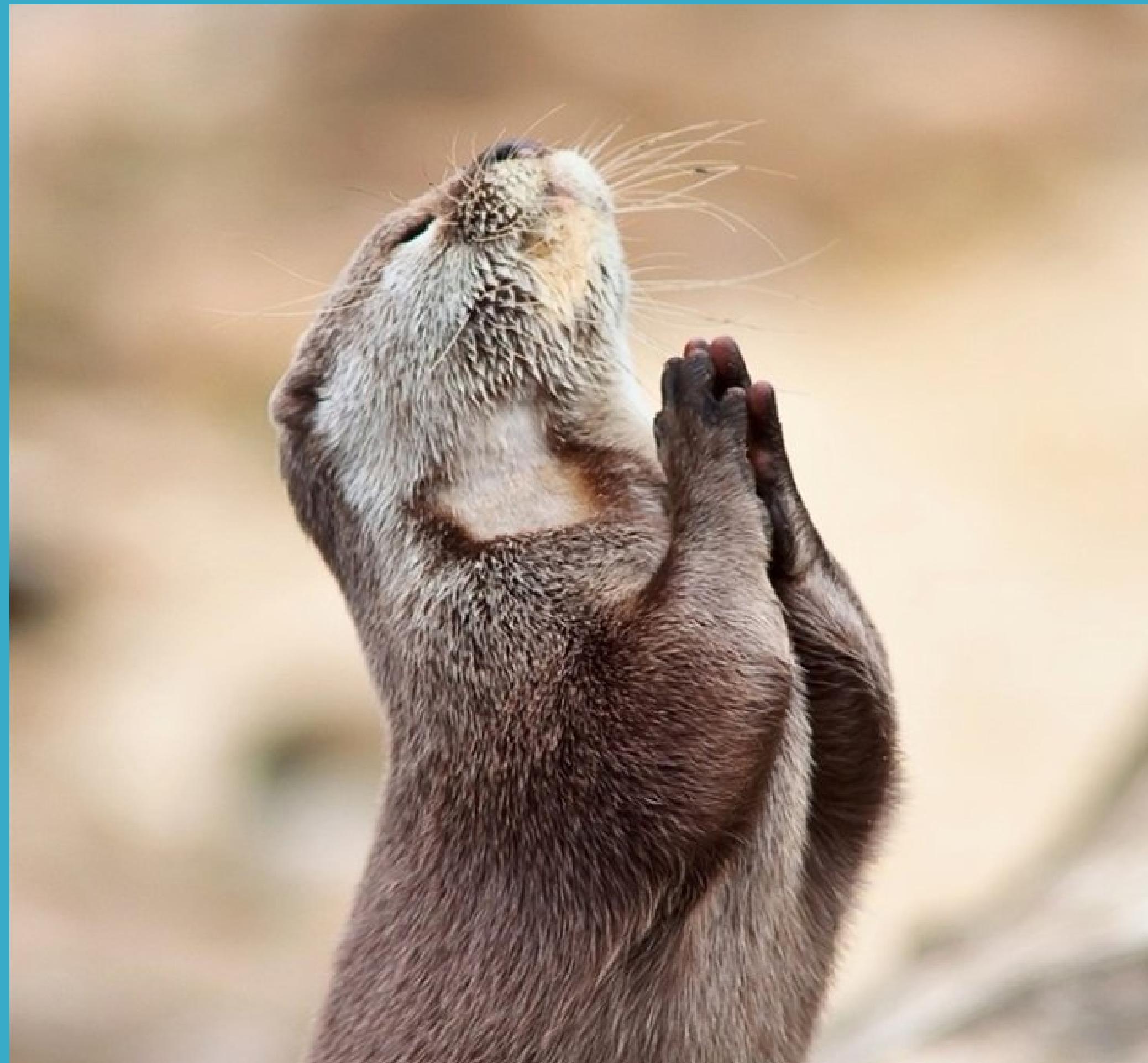
Maesh Architecture



Communication Flow

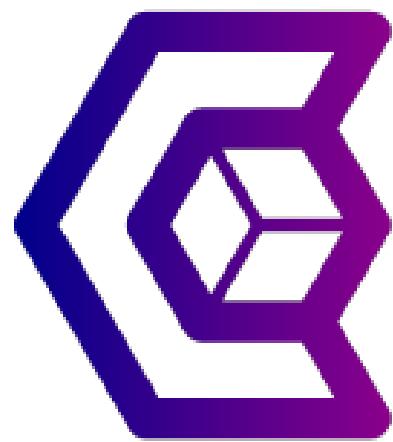


Demo



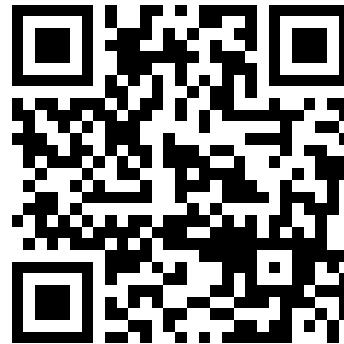
That's All Folks!

We Are Hiring!



```
docker run -it containous/jobs
```

Thank You!



- Slides (HTML): <https://containous.github.io/slides/maesh-online-meetup>
- Slides (PDF): <https://containous.github.io/slides/maesh-online-meetup/slides.pdf>
- Source on : <https://github.com/containous/slides/tree/maesh-online-meetup>