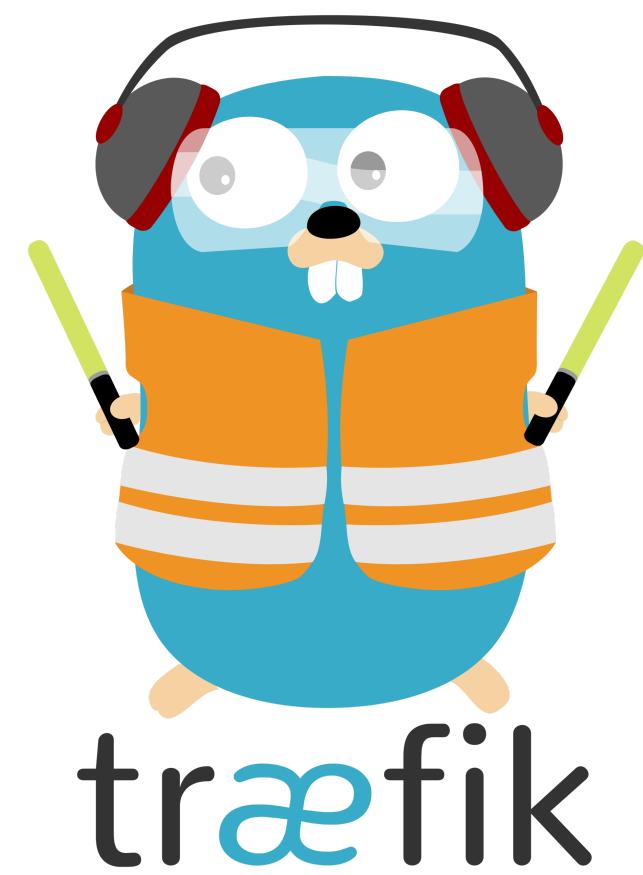


How To Easily Deploy And Manage Your Microservices With Traefik And Maesh



OpenShift meetup #11 - Février 2020

Whoami

Michael Matur

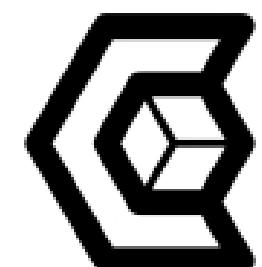
- Solution Architect @ Containous
- Blacksmith on Traefik
-  @michaelmatur
-  mmatur



Containous

<https://containo.us>

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



CONTAINOUS

Why Traefik



Why, Mr Anderson?

THE EVOLUTION OF
SOFTWARE ARCHITECTURE

1990's

SPAGHETTI-ORIENTED
ARCHITECTURE
(aka Copy & Paste)



2000's

LASAGNA-ORIENTED
ARCHITECTURE
(aka Layered Monolith)



2010's

RAVIOLI-ORIENTED
ARCHITECTURE
(aka Microservices)



WHAT'S NEXT?
PROBABLY PIZZA-ORIENTED ARCHITECTURE

By @benorama

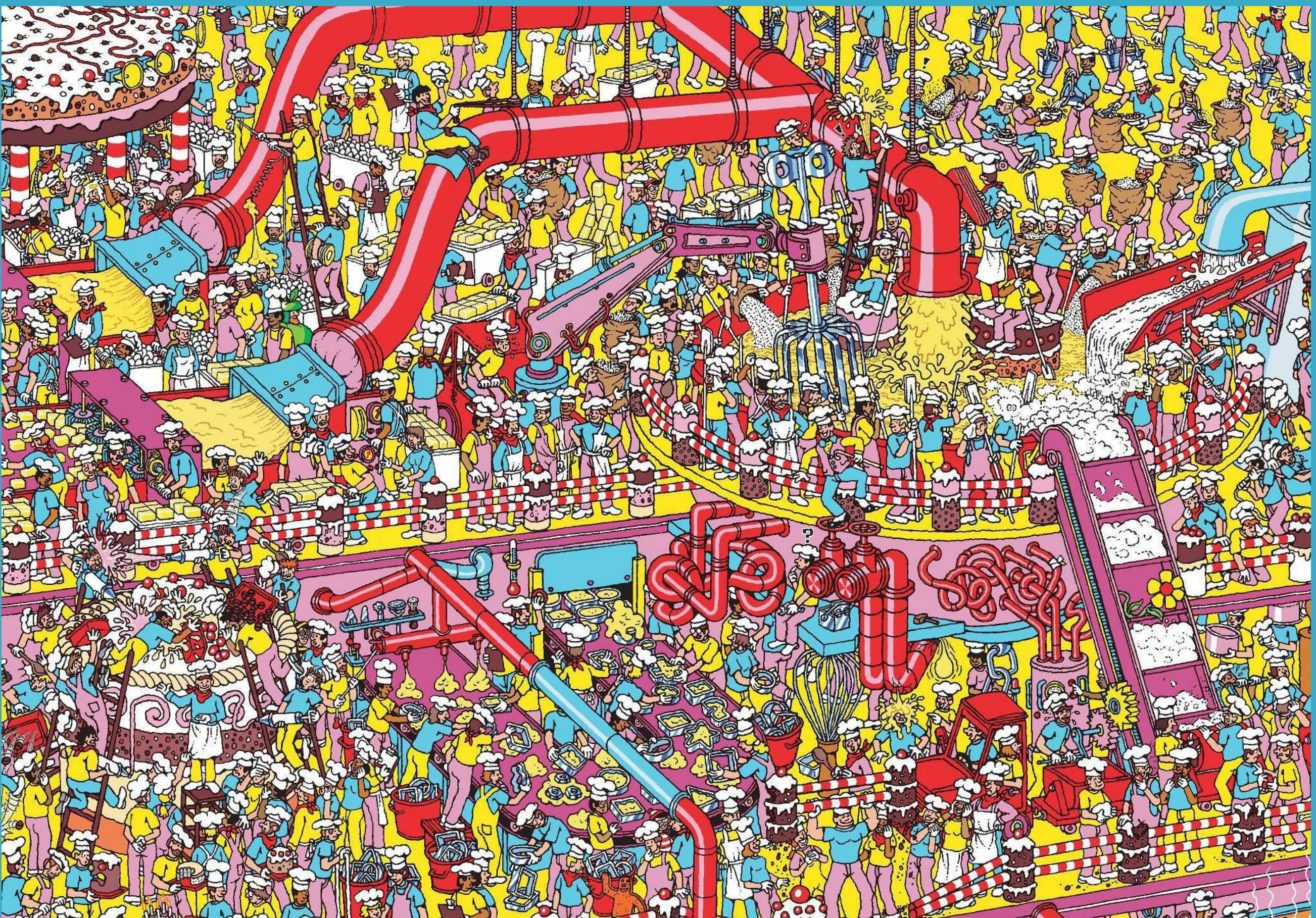
The Premise Of Microservices...



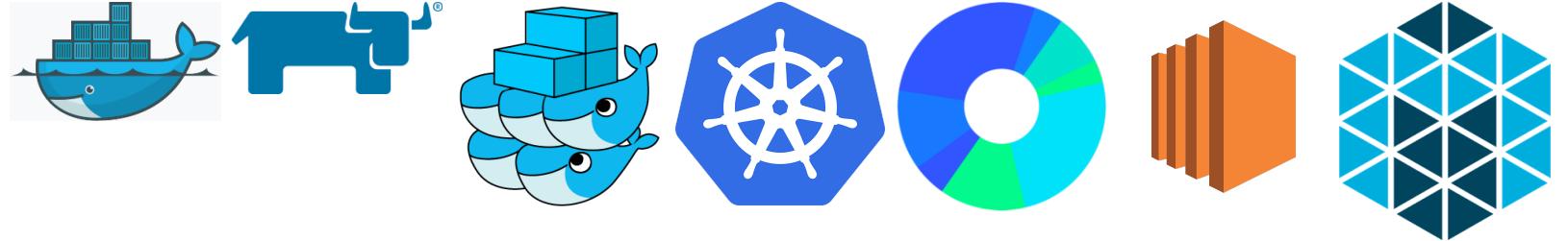
...And What Happens

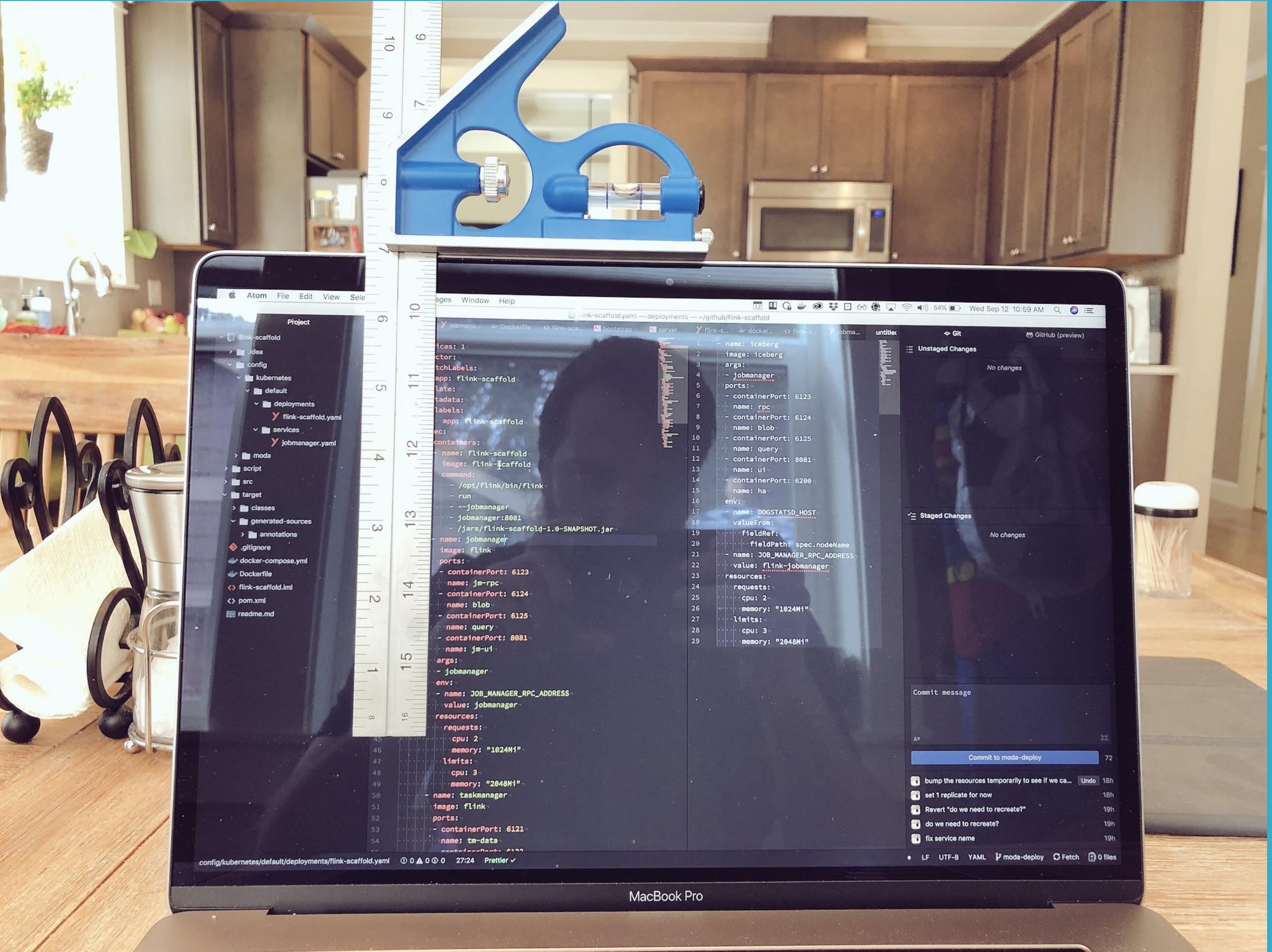


Where's My Service?



Tools Of The Trade





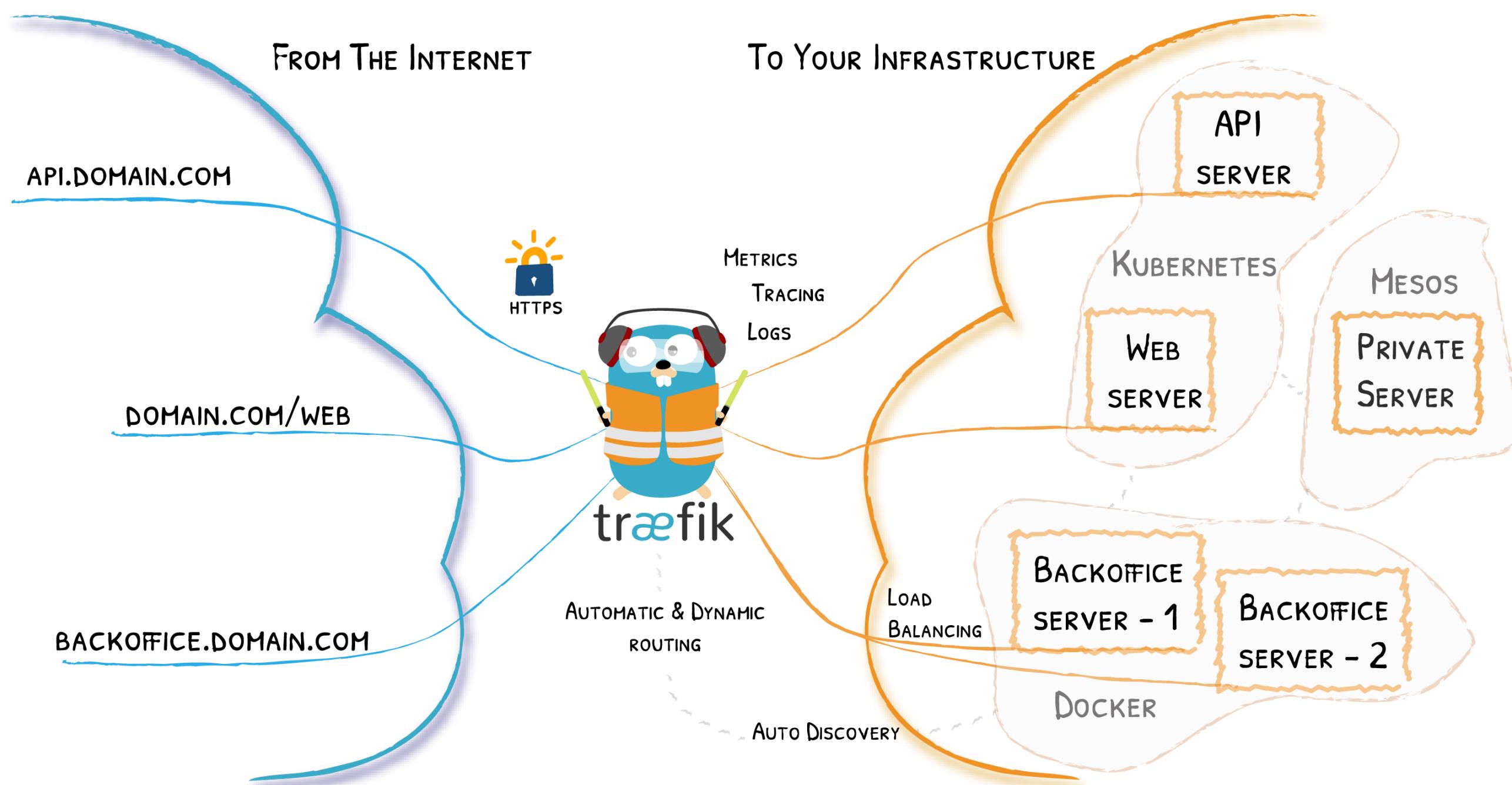
Source: <https://twitter.com/Caged/status/1039937162769096704>

What If I Told You?



That You Don't Have to Write This Configuration File...?

Here Comes Traefik!



Traefik Project



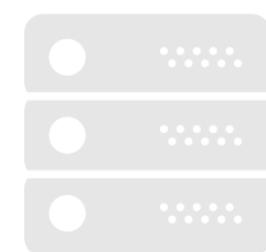
27,000+

stars on GitHub



450+

contributors



100K +
living
instances



1.4 B+

downloads



TOP 15

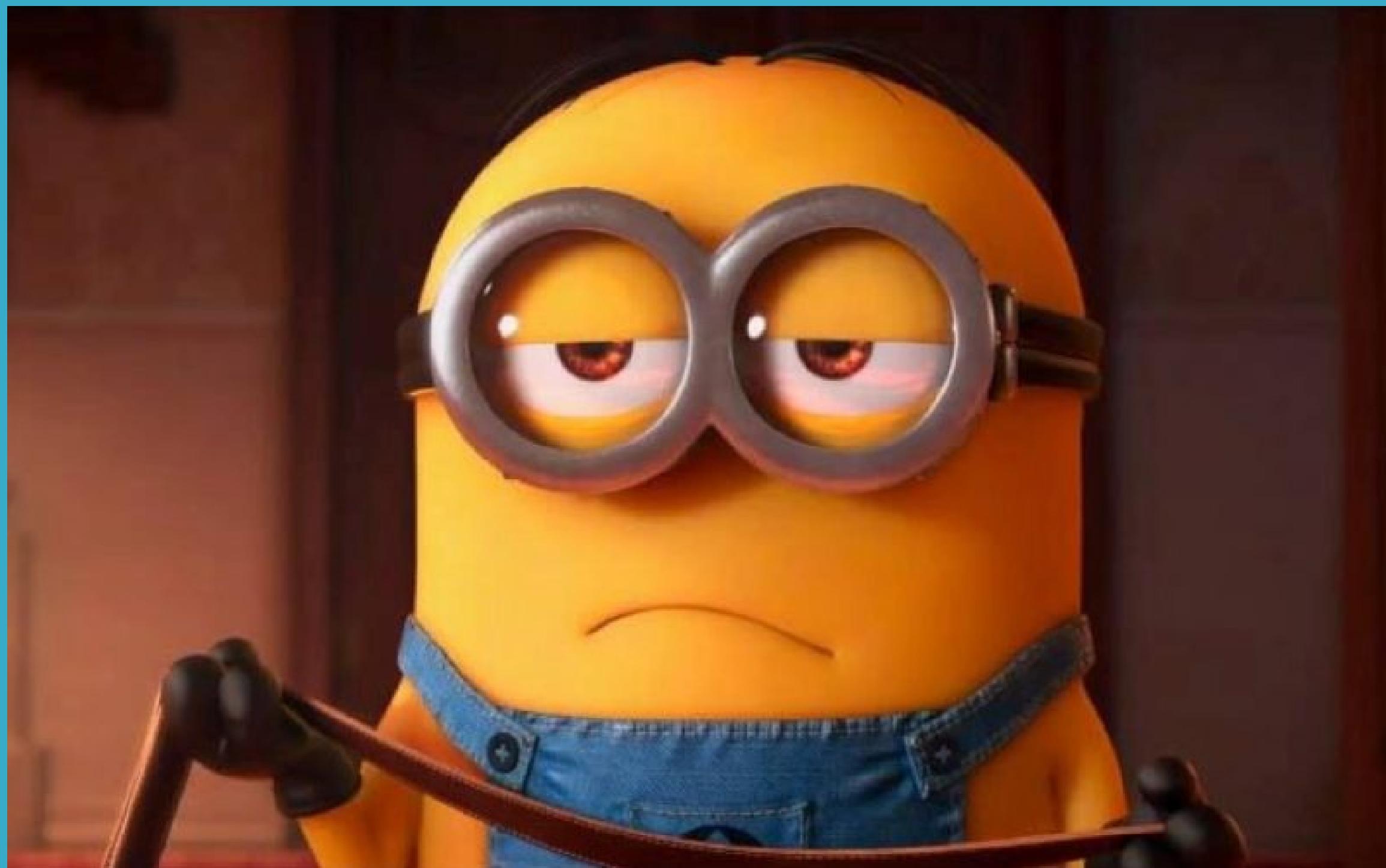
golang project

Traefik 2.0 Quick Overview

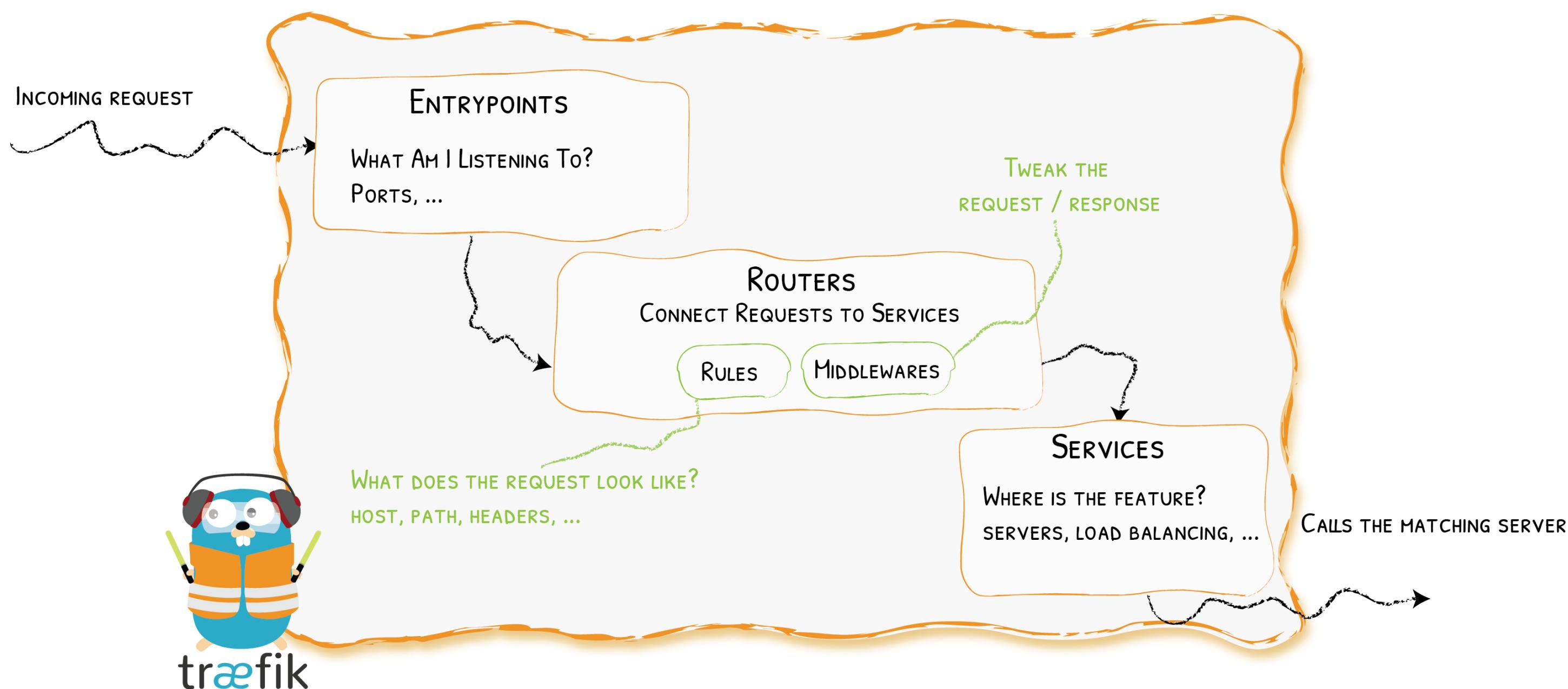
- Revamped Documentation
- Clarified Concepts
- Expressive Routing Rule Syntax
- Middlewares
- TCP Support
- Canary / Mirroring
- And so Much More...

Learn more on the blog post

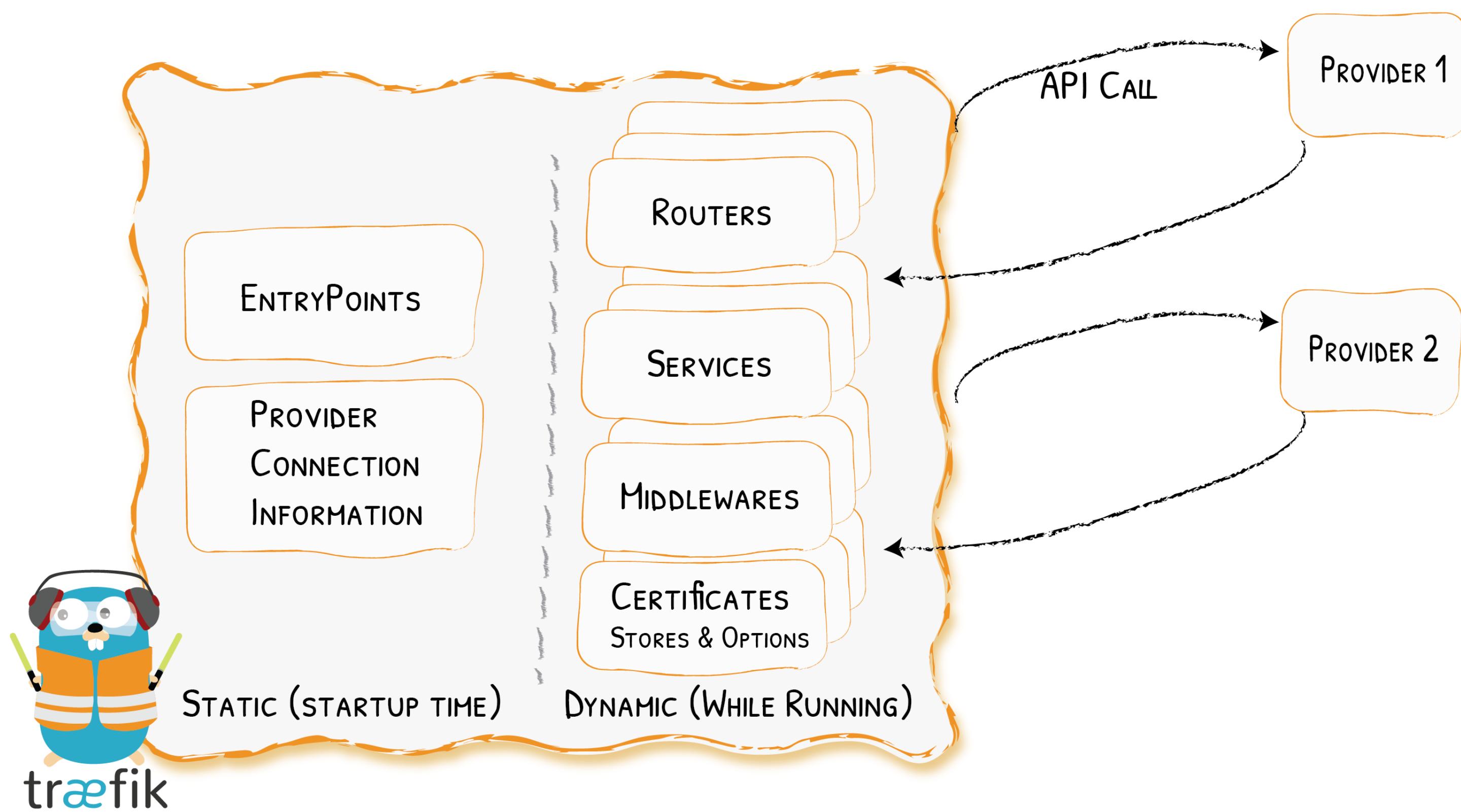
Traefik (V2.0) Core Concepts



Architecture At A Glance

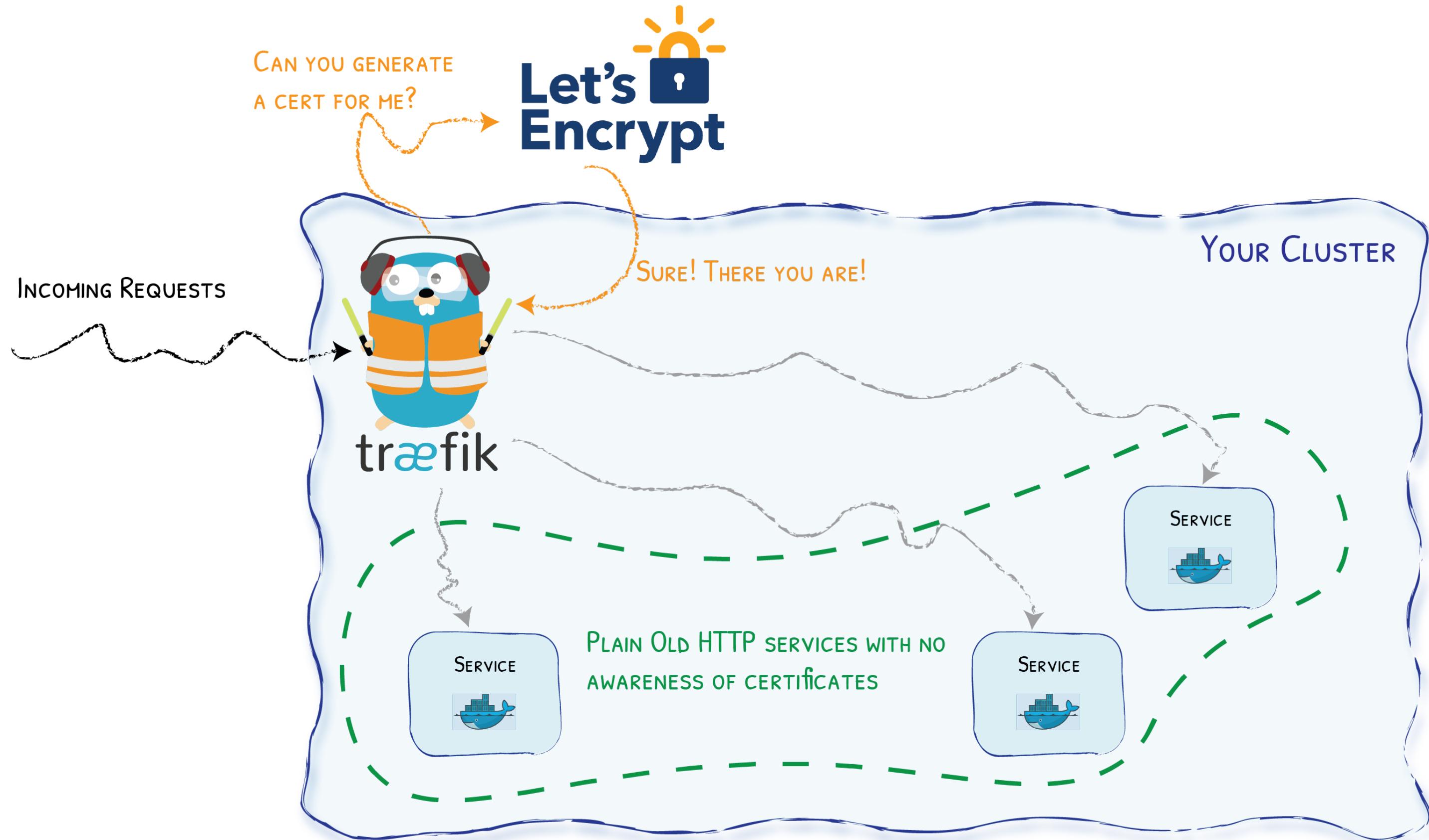


Static & Dynamic Configuration



Traefik And Let's Encrypt

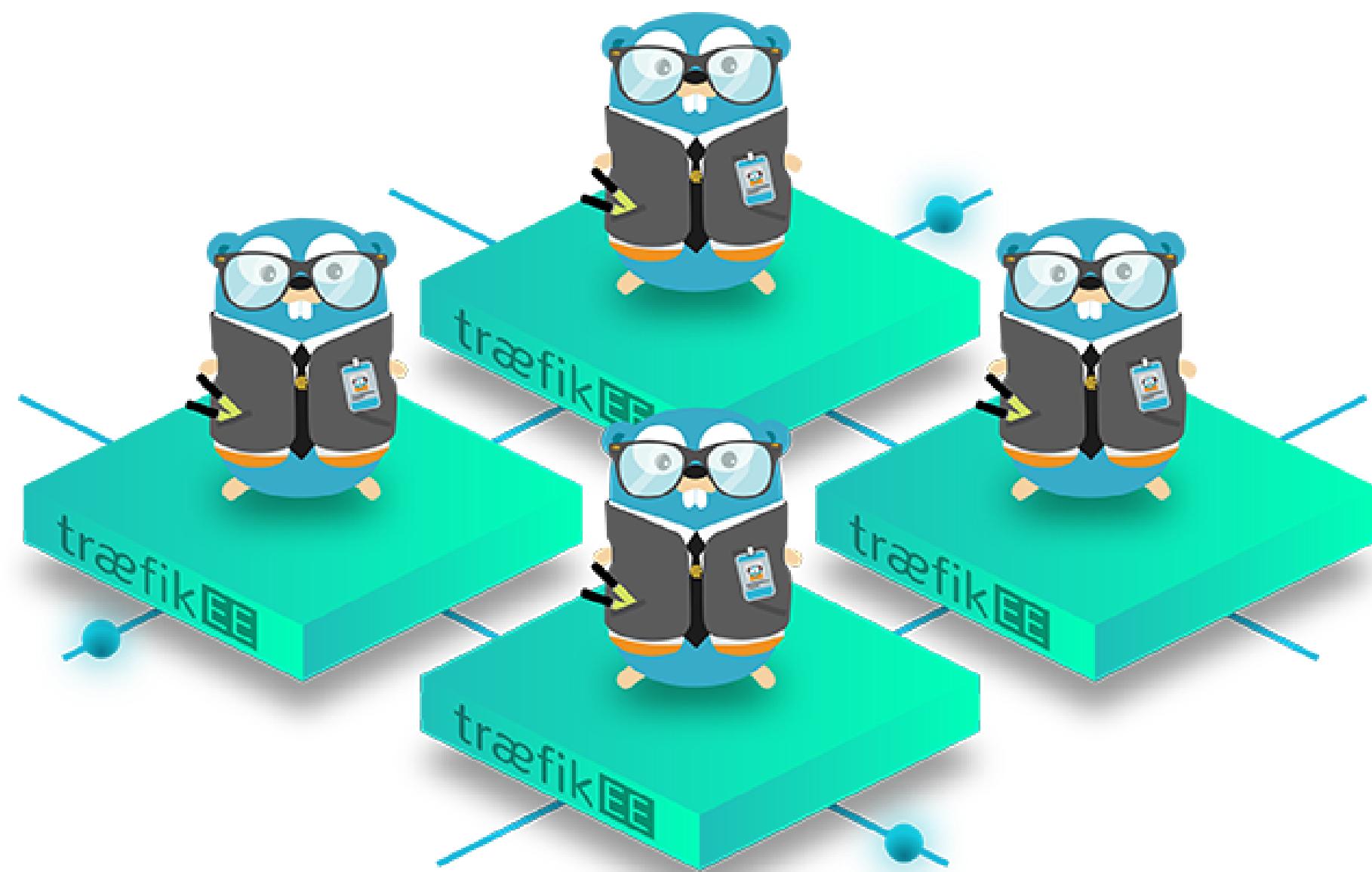
HTTPS & Let's Encrypt



Demo



Traefik Also Comes In Herd



HIGH AVAILABILITY

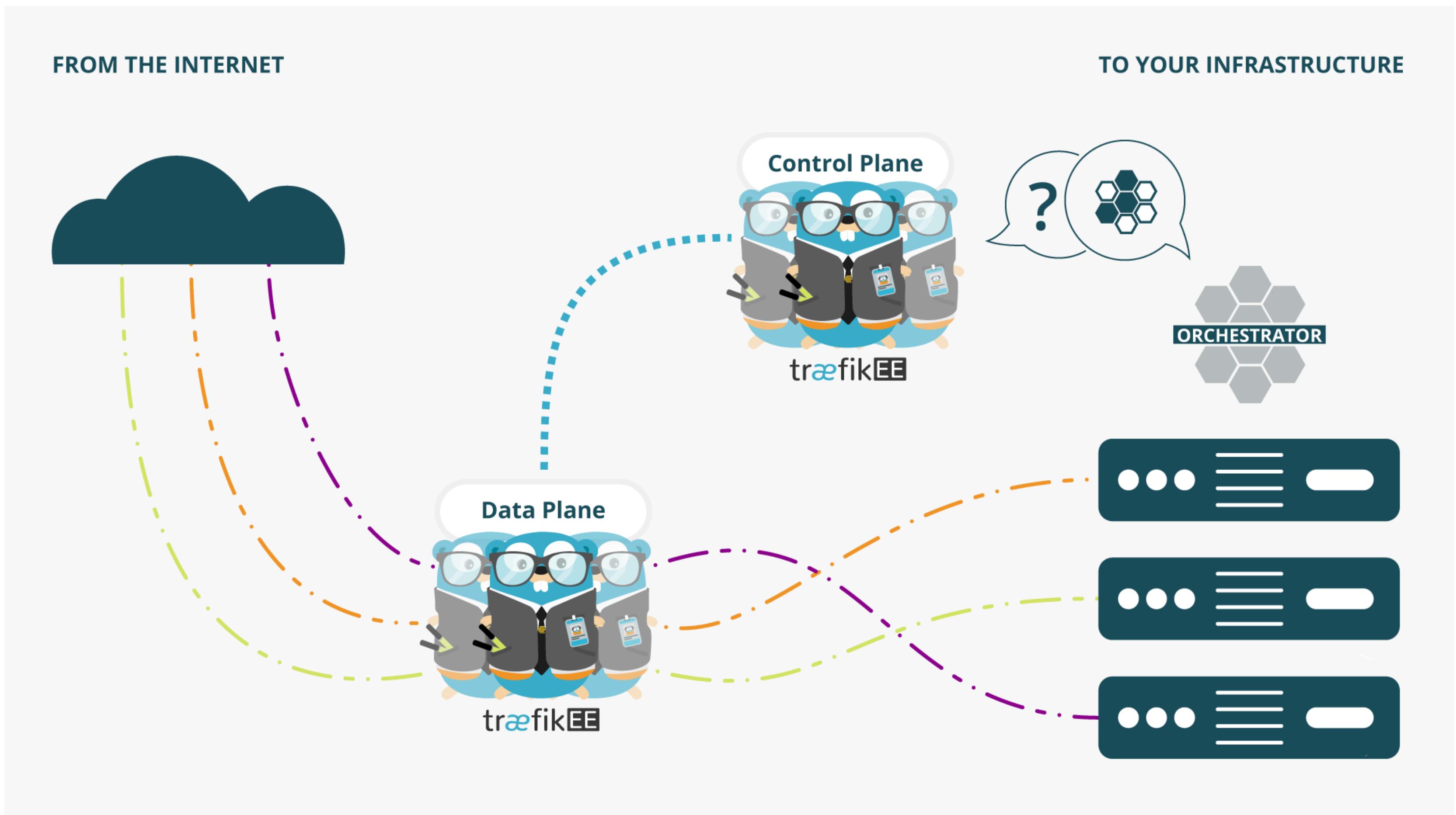
traefik ENTERPRISE EDITION

SECURITY

traefik ENTERPRISE EDITION

SCALABILITY

traefik ENTERPRISE EDITION



As Simple As Traefik

- Install it:

```
# Cluster Installation
teectl setup --kubernetes --force
teectl setup gen --license="${TRAEFIKEE_LICENSE}" --controllers=1 --proxies=2 | kubectl apply -f -
```

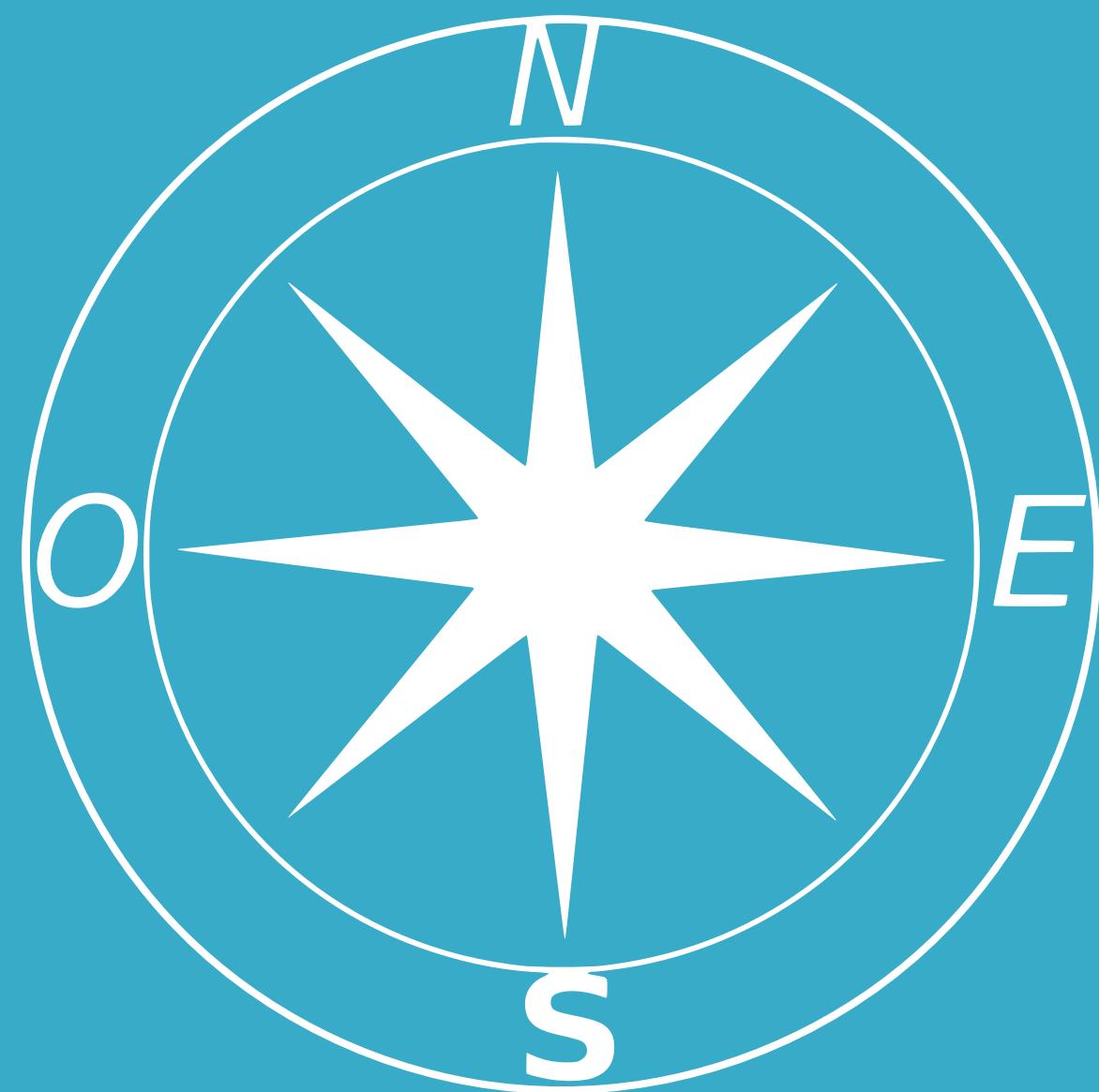
- Configure it:

```
# Routing Configuration
teectl apply --file=./traefikee/config.toml
```

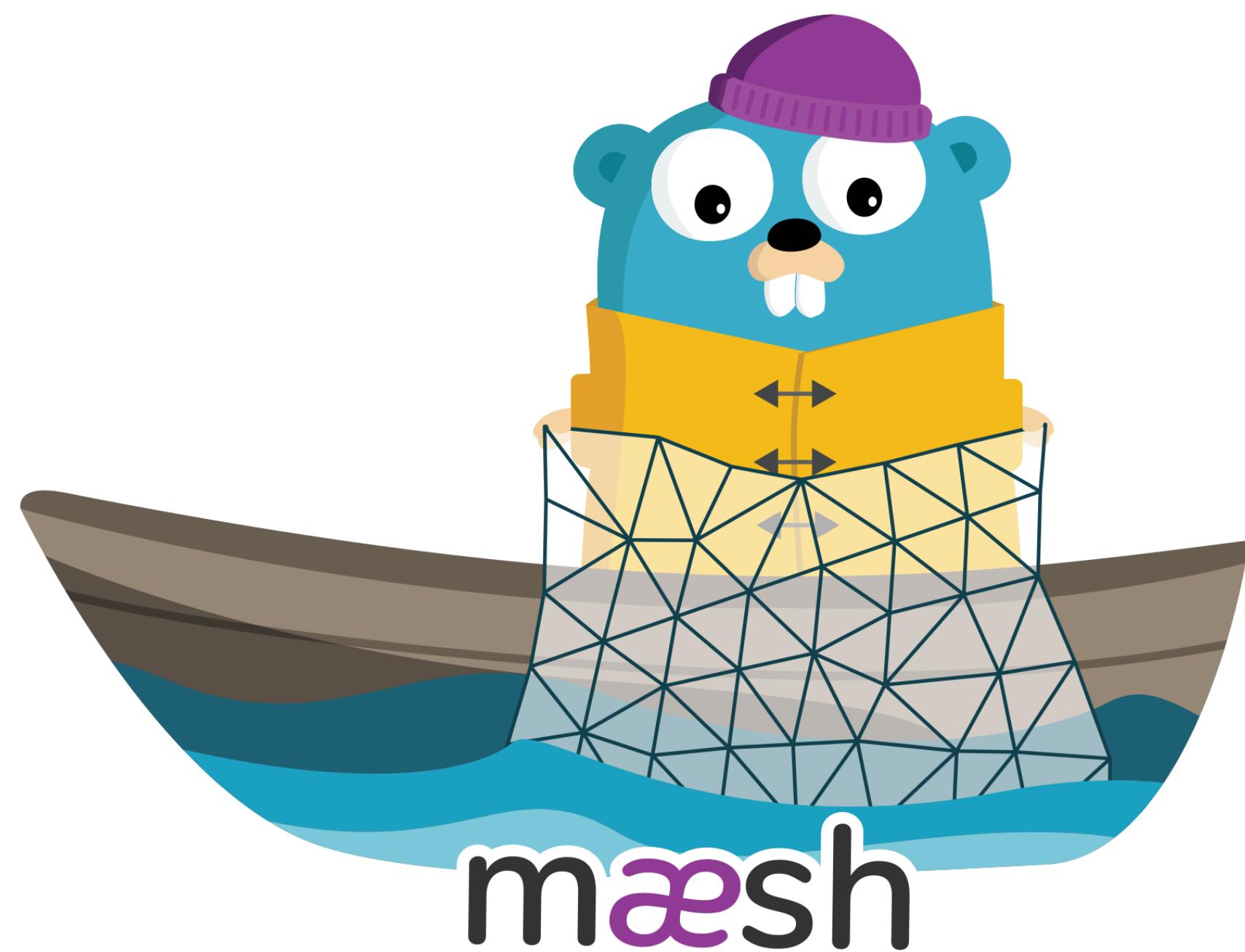
Free Trial

<https://containo.us/traefikee>

East / West Traefik



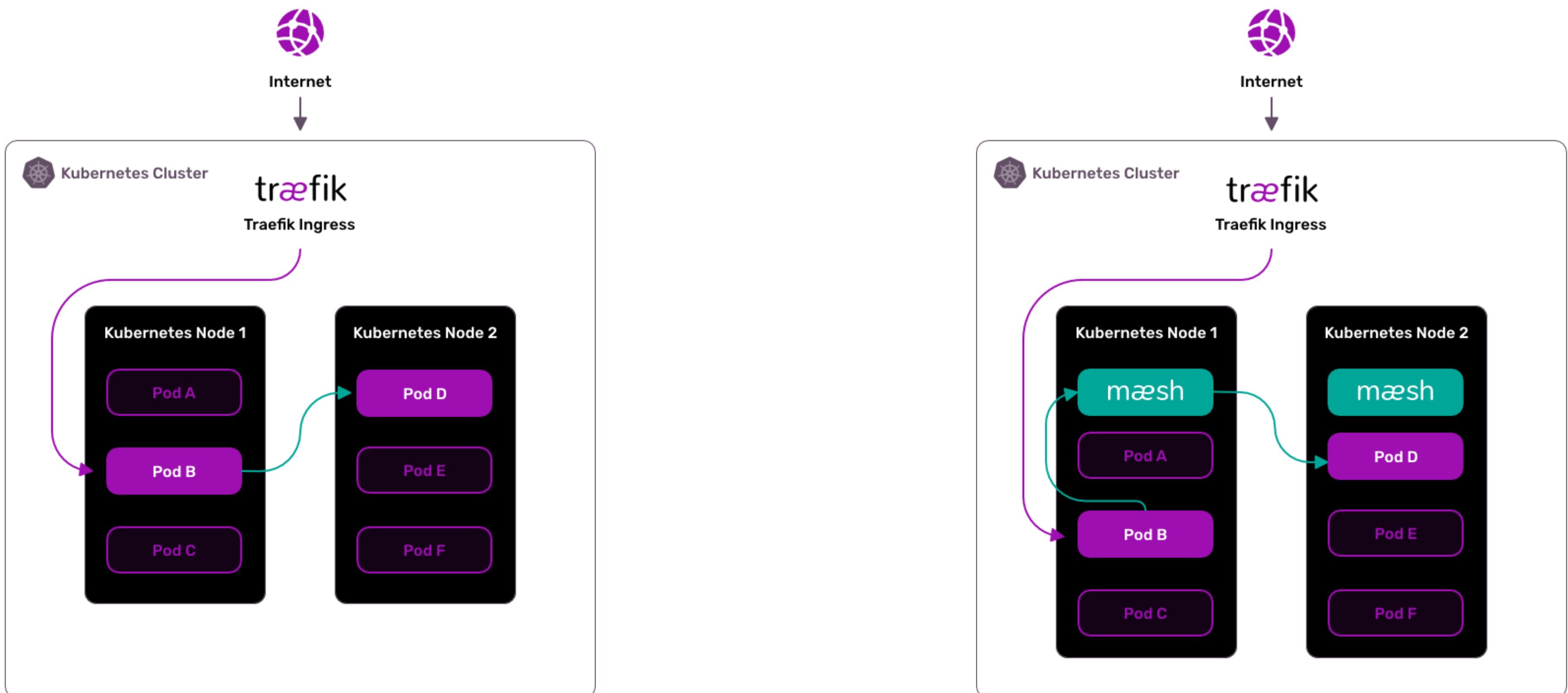
Say Hello To Maesh



What Is Maesh?

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

Maesh Architecture



More On Maesh

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

Maesh Website

That's All Folks!



We Have
Stickers!

traefik

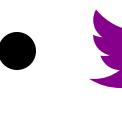
We Are Hiring!

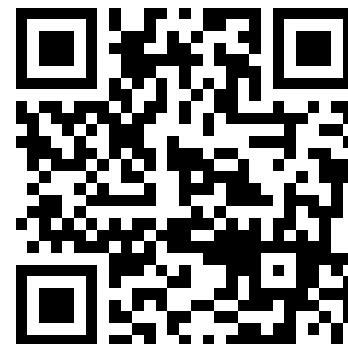


CONTAINOUS

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

Thank You!

-  @michaelmatur
-  mmatur



- Slides (HTML): <https://containous.github.io/slides/meetup-openshift-toulouse-2020>
- Slides (PDF): <https://containous.github.io/slides/meetup-openshift-toulouse-2020/slides.pdf>
- Source on : <https://github.com/containous/slides/tree/meetup-openshift-toulouse-2020>