



Max Körbächer x Liquid Reply

# Why Developer Platforms and a dedicated Platform Engineering teams is a must have

Cloud Native Rejekts

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# Hi!

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We help customers to adopt cloud native and cloud agnostic principles & implement Kubernetes focused platforms.

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Intro

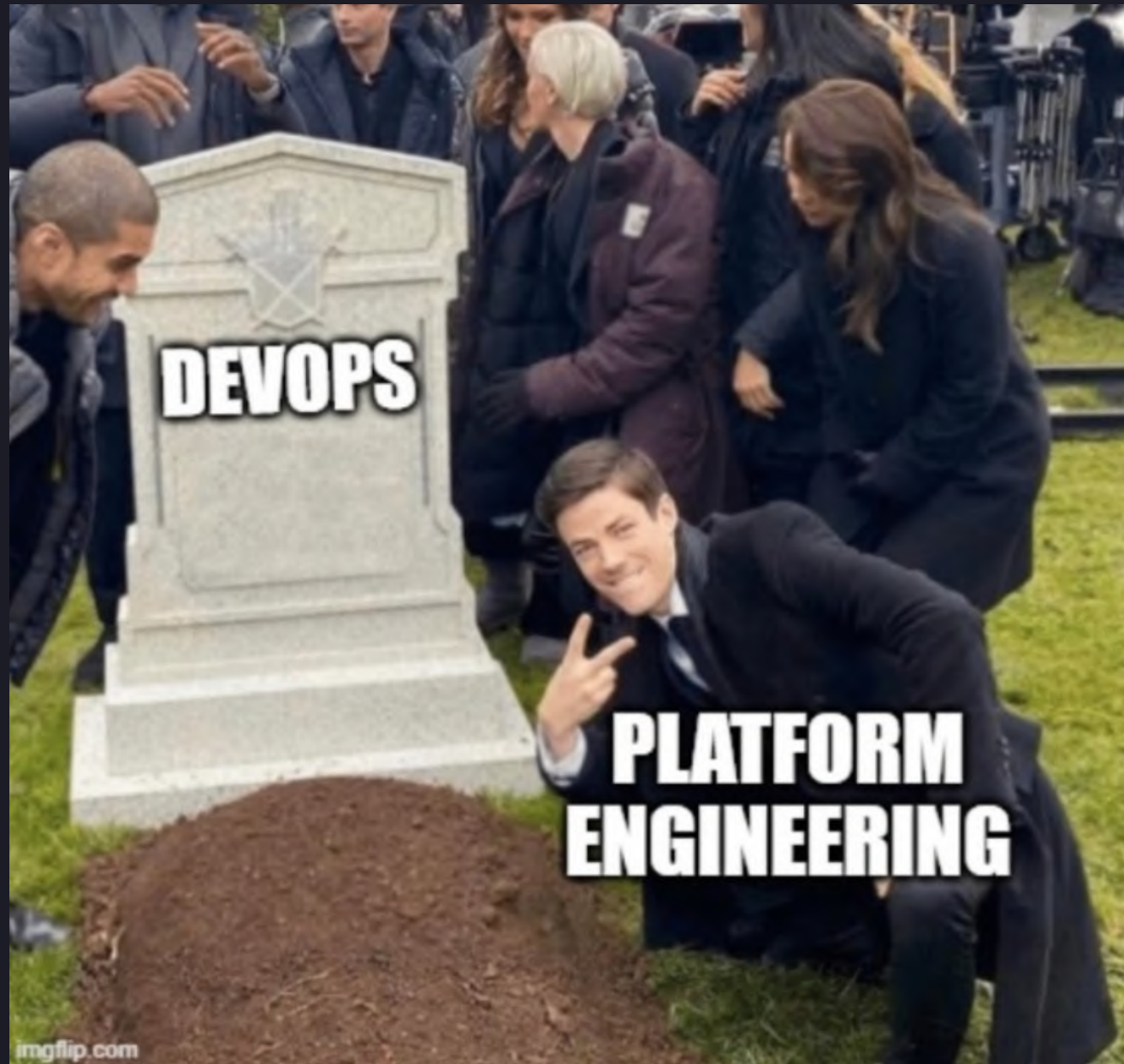


**Who of you would see themselves as a  
Platform Engineer?**

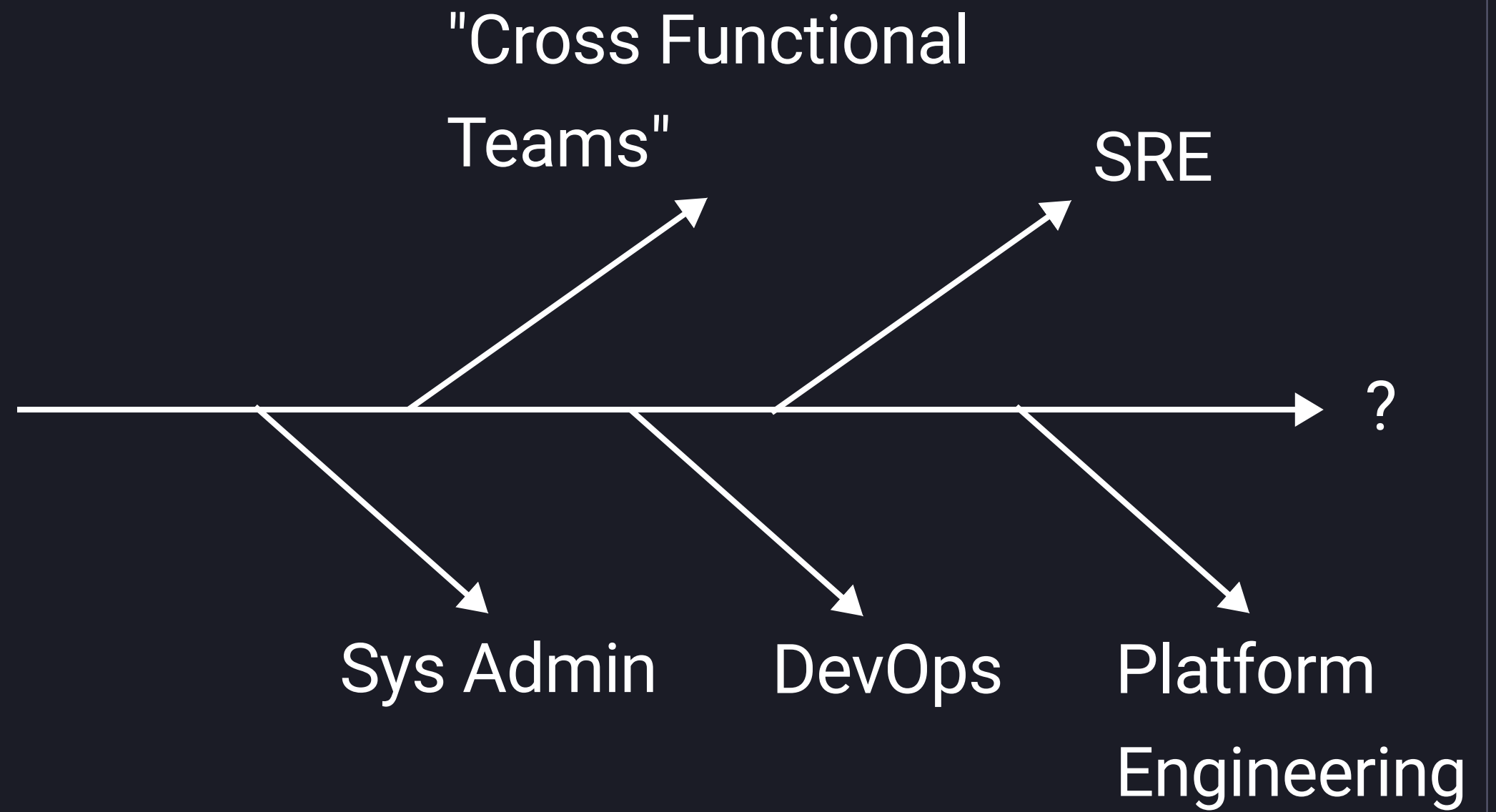
**Who has a Platform Engineer Team/  
Internal Developer Platform in the  
company?**



# Is DevOps dead yet?



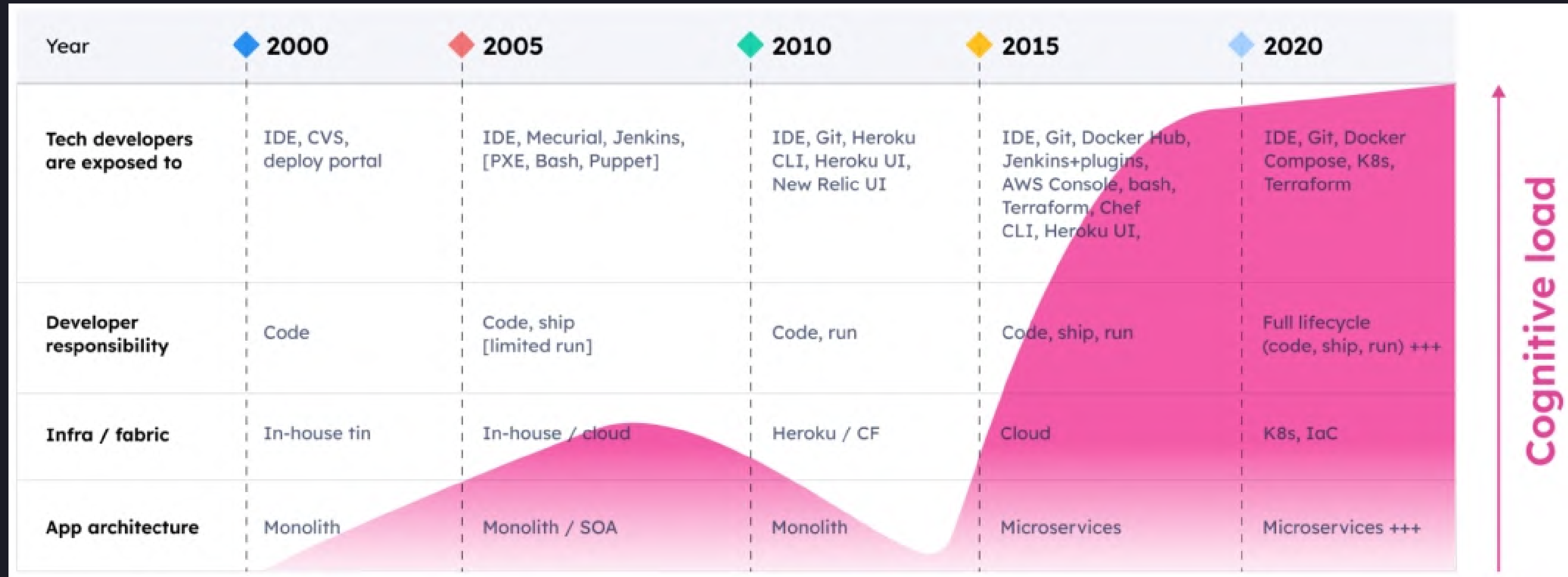
# It's evolution!



# Modus operanti

- Enterprises working project focused
  - restricted time
  - restricted money
  - expecting only one outcome
- Established teams have often support functions
- Reality writes DevOps like dev**OPS**

# Everything got to much



Background

Source: Whitepaper: State of Platform Engineering Report Vol. 1 - graphic inspired by Daniel Bryant

# What is Platform Engineering?



"... Some organizations have tackled this challenge by creating **platform engineering product teams**. These teams operate an **internal platform** which enables delivery teams to **self-service deploy and operate systems** with **reduced lead time** and stack complexity. The emphasis here is on **API-driven self-service** and supporting tools, with **delivery teams still responsible for supporting what they deploy onto the platform...**"

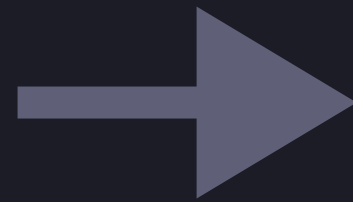
— 2017 Thoughtworks Tech Radar

# Key aspects of Platform Engineering

- 1 Design and build toolchains**
- 2 Establish workflows**
- 3 Enable self-service capabilities**

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Provide an integrated product that covers all operational needs for the entire lifecycle of an application.

# Following Cloud Native Principles

**Design for automation**

**Build for scalability & resiliency**

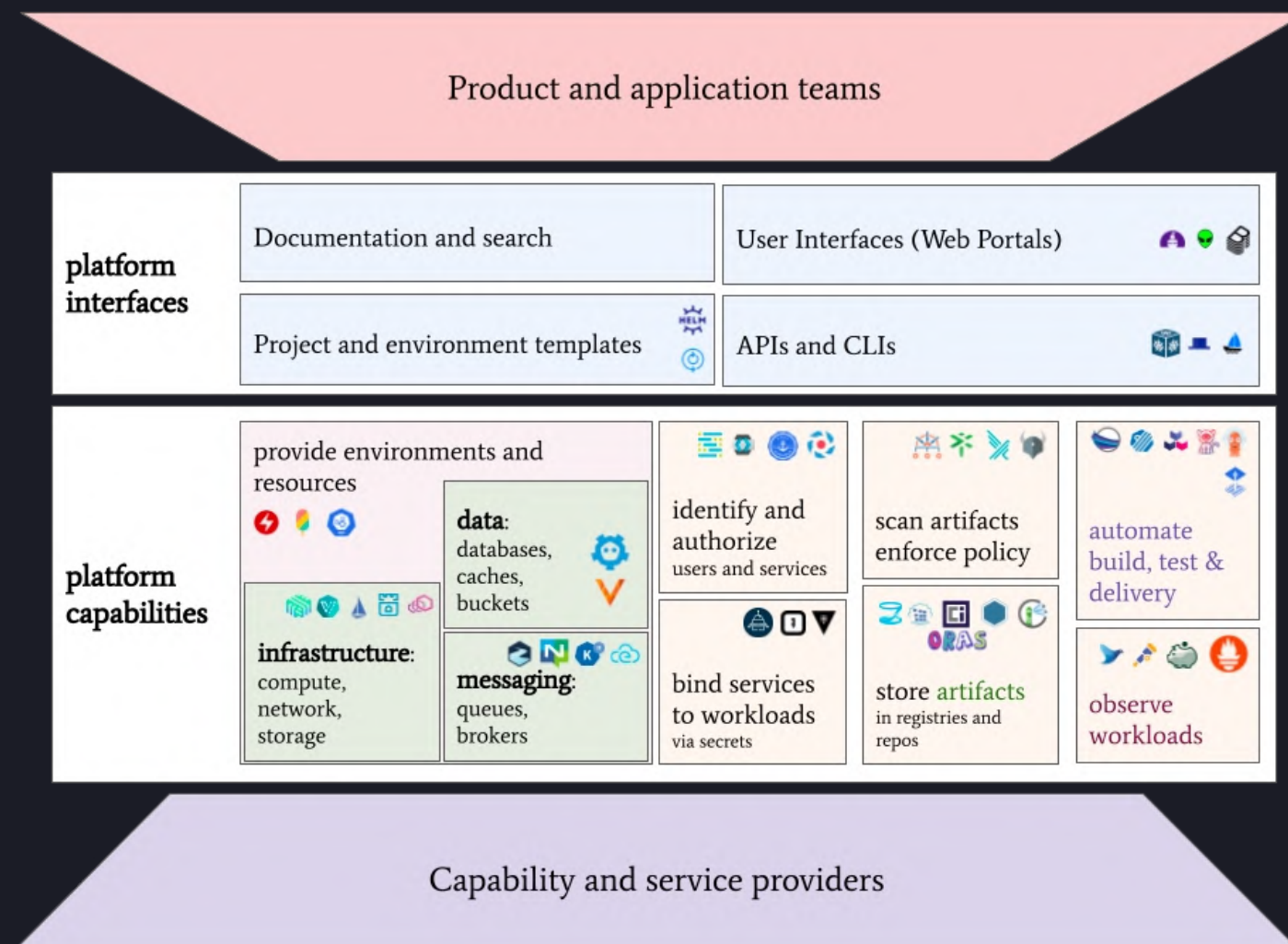
**Handle state with smartness & care**

**Everything is self-contained**

## What is a platform?

A digital platform is a foundation of self-service APIs, tools, services, knowledge and support which are arranged as a compelling internal product.

1. Treat the Platform as a Product
2. User experience is relevant
3. Documentation and onboarding must be lean
4. Self-Service capabilities are central focus
5. Reduce cognitive load for users
6. Optional and composable
7. Secure by default



Source: <https://tag-app-delivery.cncf.io/whitepapers/platforms/>

## **DevOps**

DevOps focus often on a certain team, product or domain and their challenges, in its extend doing 24/7 operations and rarely any development.

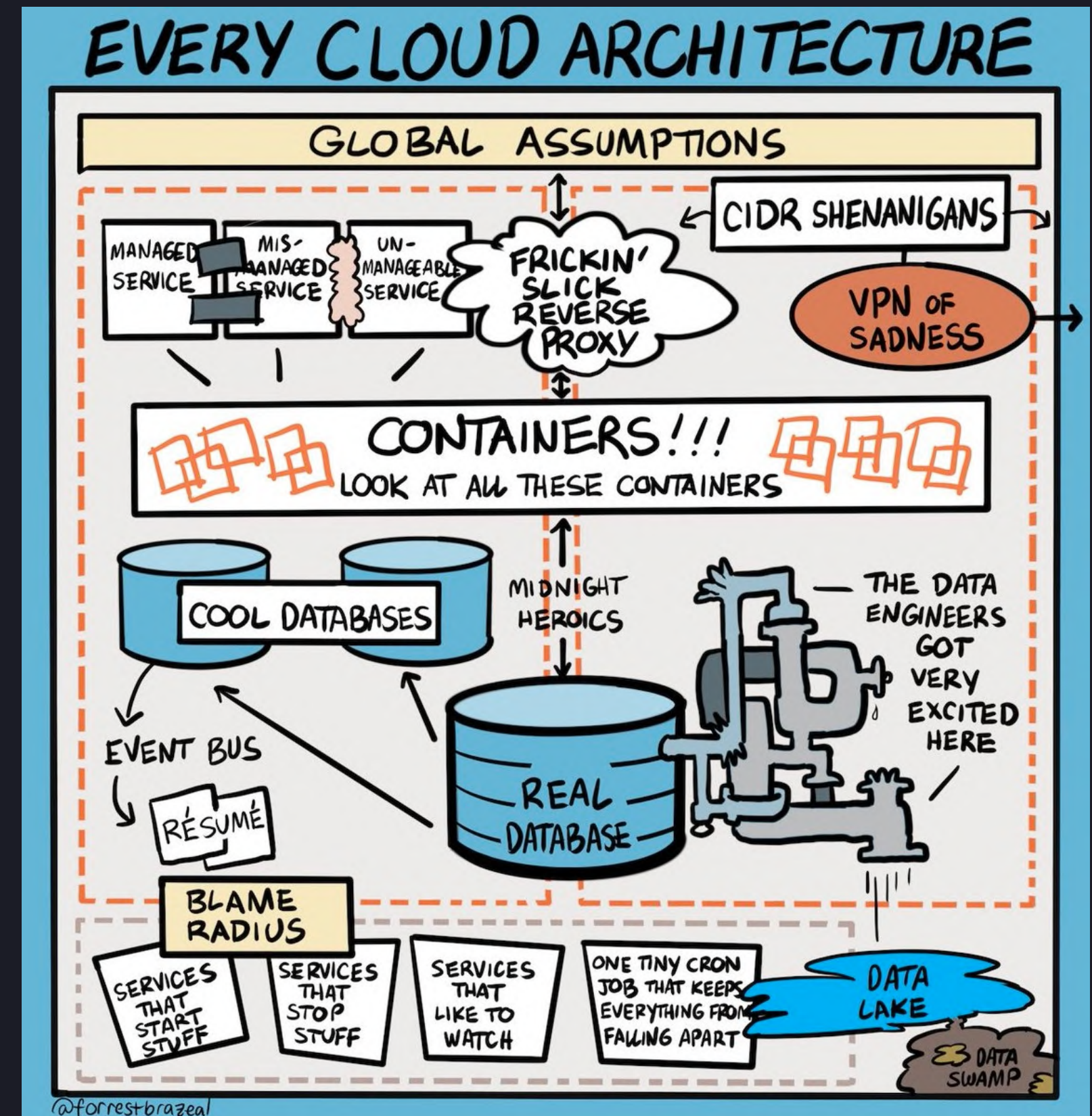
## **SRE**

Focusing on the app product reliability, have a close interaction with developers, can fix issues and maintain an app product in a healthy state.

## **Platform Engineers**

They understand the whole required infrastructure, processes and integrations needed to build, run and manage an application as a product. The dev teams are their customers.

In short:  
PEs try to offload Developers  
from all the grown complexity  
of the past years



# The benefits of Platform Teams



Improved Application Lifecycle

**x1,5 - x18**

Reduced dev cycle error rate  
/week/developer

**~2h**

Cost optimization/reduction

**20%-30%**

Grown reliability

**No downtime\***

\*in our control

# Lessons learned from enabling PE teams





# 1. Don't build everything by yourself aka don't reinvent the wheel

- Far too often platform teams want to build a solution for their unique case
- A "we can do it better anyhow" mentality is more harmful than productive
- For most projects we migrated custom operator, controller, and shell scripts to given open source projects

## 2. Platform Teams are not a project

- To have an effective platform engineering they need to be an established team
- We often see budget and resource cuts after some certain functionalities are achieved, this is dumb, as the whole IT world is moving 10x faster than the rest of most businesses
- Find the right way of work - SCRUM or AGILE isn't the answer!



### 3. You need the commitment, to give the freedom

- Usually highly effective and efficient PE teams are very dedicated to their job
- To achieve this, you have to give the freedom to test things out and trust in them
- From this freedom of finding better solutions, you will get a higher commitment to built an even better platform

## 4. Things are changing, delete the word of "throw away"

- Forget about the mentality that a once-implemented solution has to stay for ever
- Our cloud native landscape is continuously in the move, reshaping solutions as the community overall faces similar problems and provides common tools to solve them
- "Throwing away" makes space for something new - when did you tidy up your cellar the last time?

– 2017 Thoughtworks Tech Radar

"Organizations that consider establishing such a platform team should be very cautious not to accidentally create a separate DevOps team, nor should they simply relabel their existing hosting and operations structure as a platform."

**If you haven't a PE  
team, you should  
grow one!**



## Checklist for your Platform Engineering Team:

- Provide an environment outside of your organizational bull s\*\*t
- Have a clear vision & target for the team
- Give space to grow (budget, time)
- Give up your project mentality

# Thank you

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