



Stop met Devops!

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Platform engineering is de volgende  
(r)evolutie die je niet mag missen

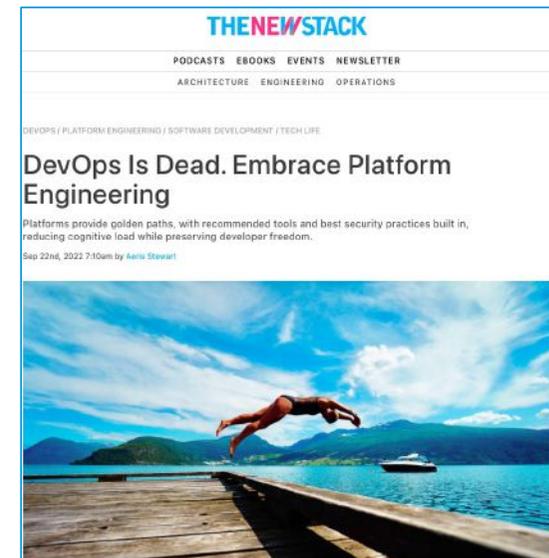
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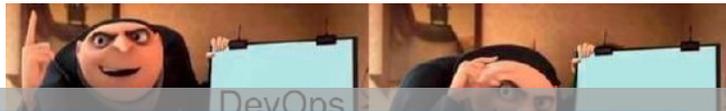
# Quit DevOps...really?



DevOps is dead 🦴, long live Platform Engineering!  
1) Developers don't like dealing with infra  
2) Companies need control of their infra as they grow  
Platform Engineering (and Internal Developer Platforms) enable these two facts to coexist. Here's how:  
(1/n)  
— Sid Palas (@sidpalas) July 26, 2022



# Quit DevOps...really?



## Platform Engineering is Not New and DevOps is Not Dead

Latest News | Sponsored | Published: December 21st, 2022 - Nigel Kersten

DevOps is dead! Long live platform engineering!

Here we go again: another technology hype cycle hailing The New Big Thing, and how The Old Big Thing is dead. But as someone who still believes in DevOps (despite observing many sub-optimal initiatives) *and* as someone who really does believe in modern platform engineering, I'd like to pick apart the topic in a bit more detail and with a bit of history from my time in this space. All histories are imperfect, but some are useful.



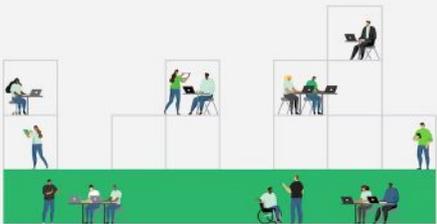
3:25 PM · Feb 2, 2023 · 1,408 Views

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## DevOps isn't dead: How platform engineering enables DevOps at scale

Jacob Schmitt  
Senior Technical Content Marketing Manager



DevOps is dead 🏴‍☠️, long live Platform Engineering!  
1) Developers don't like dealing with infra  
2) Companies need control of their infra as they grow

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Home » Blogs » Is DevOps Dead? I Don't Think So!

### Is DevOps Dead? I Don't Think So!

BY: ALAN SHIMEL ON OCTOBER 4, 2022 — 1 COMMENT

A lesson I have learned over my 30 years in the tech world is that technology and frameworks never truly die—they evolve and they grow. When I read a recent article proclaiming, "DevOps is dead!" and that we should all be embracing platform engineering, I had a chuckle.

No, DevOps isn't dead, and rumors of its demise have been greatly exaggerated. In fact, DevOps is more alive than ever and the truth is, it is going wherever software goes. When I went back and read the article again, I realized that it appeared on a website owned by a venture capital (VC) company and that the article itself was a sponsored post from a company promoting platform engineering. That's a good reminder to take that article with a grain of salt. I also realized that the headline was meant to be controversial, if not downright clickbait.



# Agenda

VMUGNL Tanzu sessions in retrospect

Kubernetes is the holy grail but not for your developers?

A little bit of Infra - DevOps- SRE history

About...Golden path, IDP & Platform Engineering

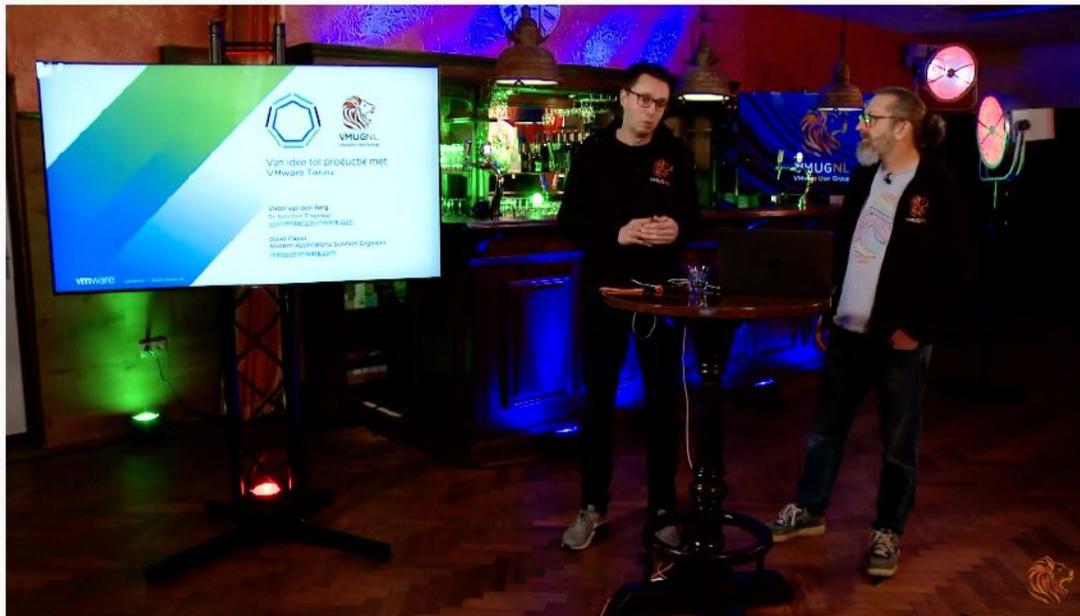
Platform-as-a-product

Secure supply chain

Tanzu Application Platform

Q&A

# From idea to production with VMware Tanzu



## Van idee tot productie met VMware Tanzu, Viktor vd Berg & David Caron

134 weergaven 28 feb. 2022 In deze sessie nemen David en Viktor u mee in de wereld van applicatie modernisatie. Tijdens deze sessie, met daarin enkele live demo's, leert u hoe VM...meer

4 Vind ik niet leuk Delen Downloaden Fragment Opslaan ...



VMUGNL - The Dutch VMware Comm...  
26 abonnees

ABONNEREN

Reacties

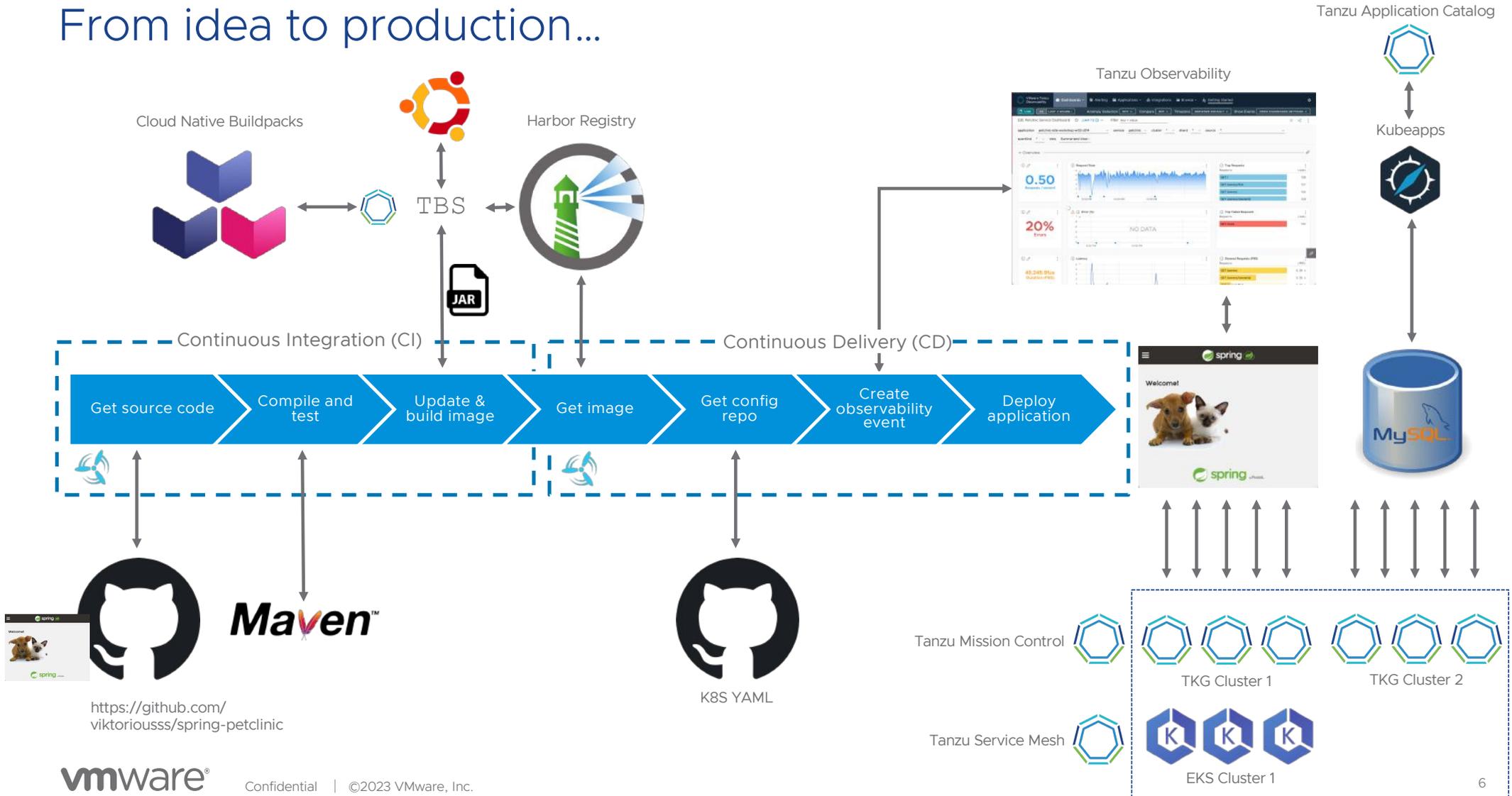


Reactie toevoegen...



[https://www.youtube.com/watch?v=qCGPMMyVO8&list=PLcmKfQyVbTHE7AKHkeWjgo6\\_mjCZ0ms\\_Q](https://www.youtube.com/watch?v=qCGPMMyVO8&list=PLcmKfQyVbTHE7AKHkeWjgo6_mjCZ0ms_Q)

# From idea to production...

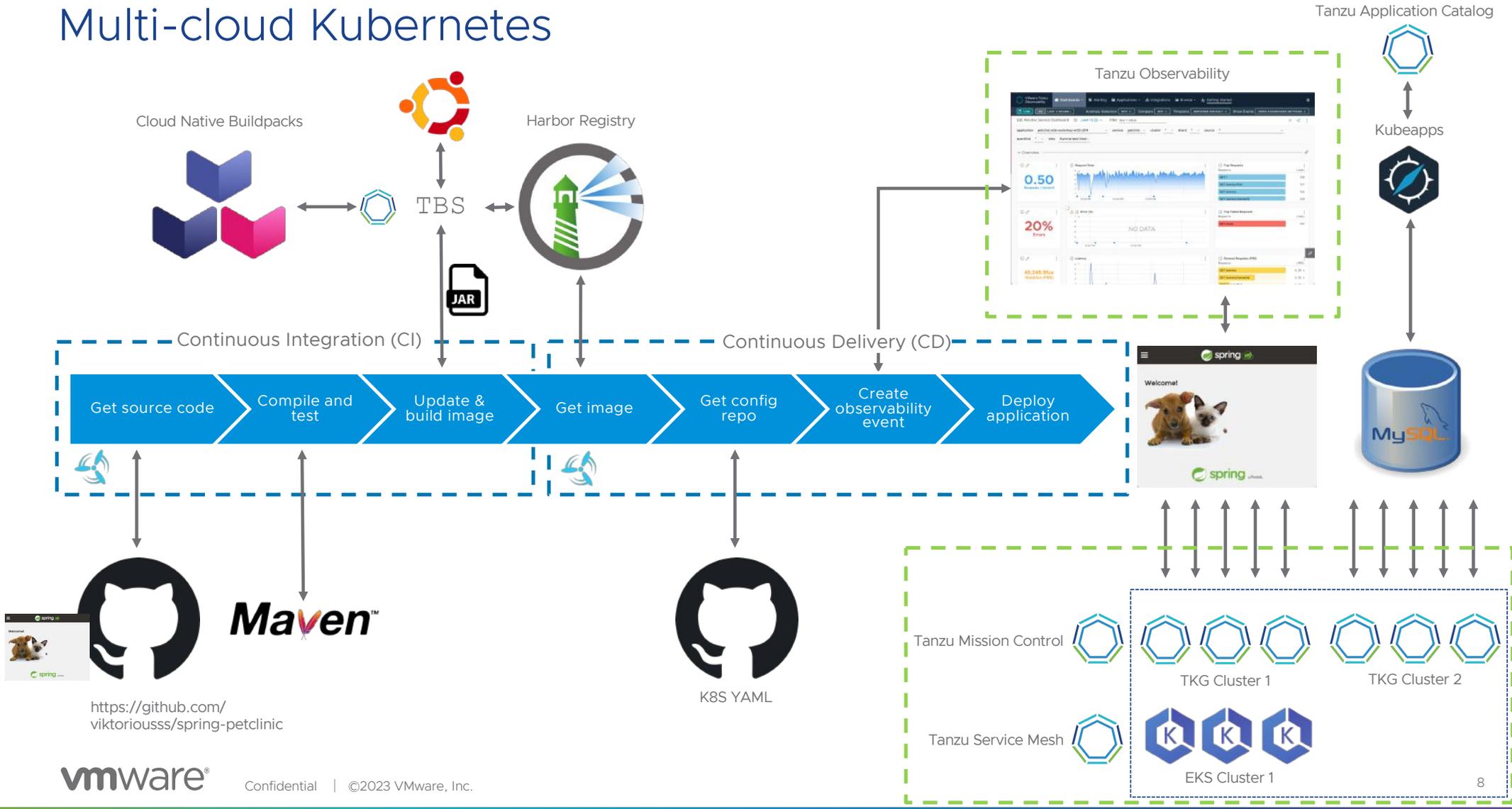


# Power to the multi-cloud!

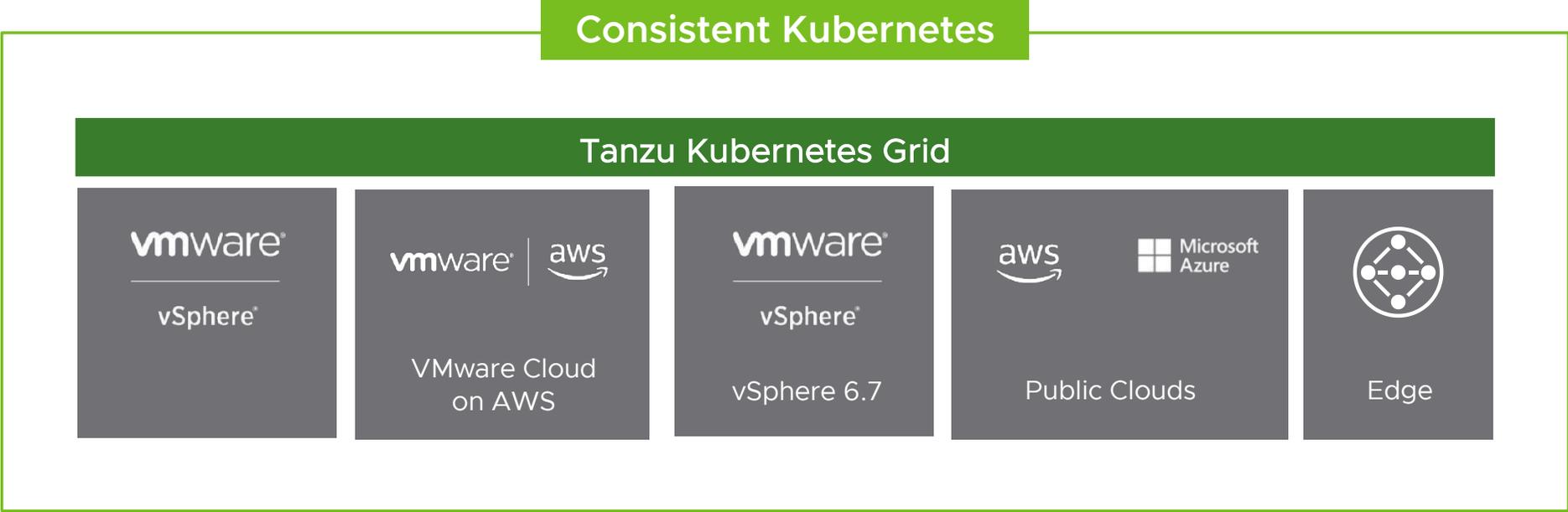
How to run & manage a multi-cloud K8S environment



# Multi-cloud Kubernetes



# Kubernetes is “just” another infrastructure layer



# What we see at our customers

## How real organizations use cloud-native/kubernetes

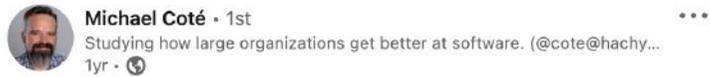
### Containerized Application Deployment:

- Run ISV software on Kubernetes
  - BMC Helix ITSM
  - IBM Filenet
  - Data platforms
  - Tooling (e.g. Prometheus, Grafana)
  - ...
- Make use of K8S capabilities
  - Provide high(er) availability
  - Scalability
  - Self-healing
- Challenge: sometimes companies just put their monoliths in containers

### Cloud-Native Development

- Build apps that adhere the 12-factor principles (<https://12factor.net/>)
- Break up monoliths into micro-services
- Improved management of apps/app development
- Links teams to specific app capabilities
- Speed up software release cycle/time-to-market
- Improved reliability, adaptability, security
- Better user experience
- Run your apps everywhere 😊

# Kubernetes is not for developers?

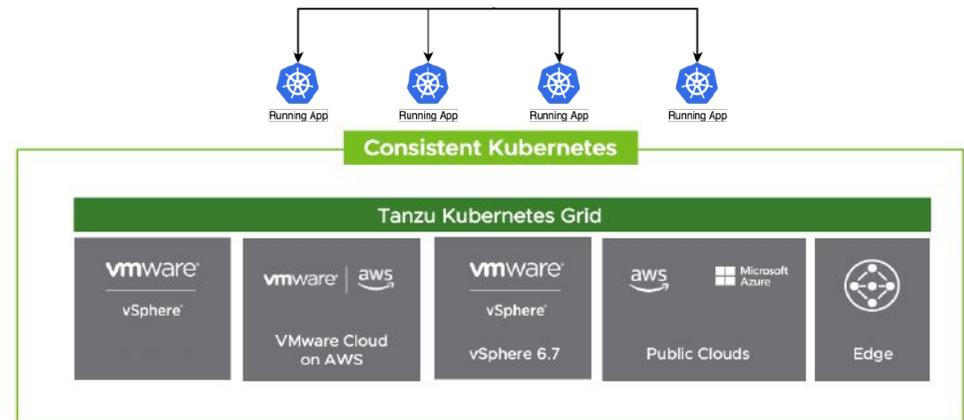


Here's my current "is kubernetes for developers?" analysis. Conclusion: probably not...? And also, what do you mean by "developers"? We'll see what happens over the next 12 months. [https://lnkd.in/gJ\\_cHt6z](https://lnkd.in/gJ_cHt6z)

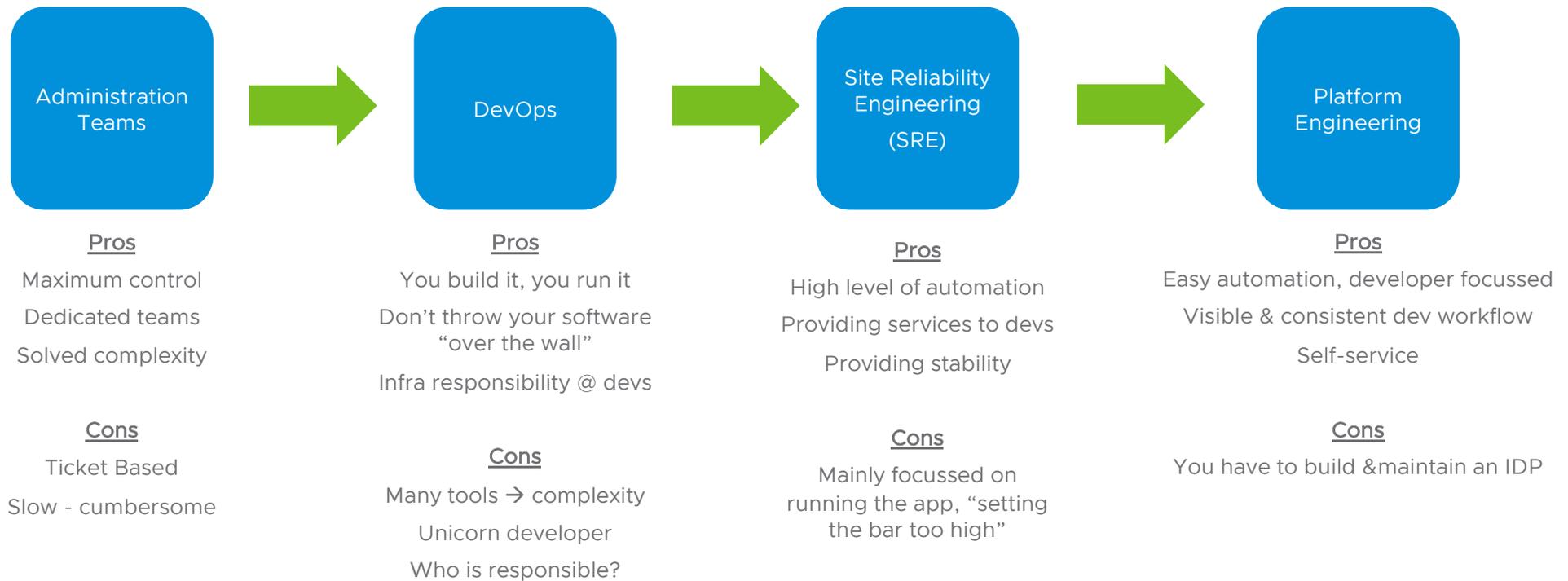
#kubernetes #devoops #vmwaretanzu



<https://www.youtube.com/watch?v=wJfFHKoF4Fs>



# A little bit of history



There have always been platforms



# Traditional platforms

Ops teams deliver a standardised platform

Mostly centered around a single technology:

- J2EE (WebSphere, WebLogic)
- .NET Framework
- Layered architecture on top of a standardised DB

Applications are “thrown over the wall” to Ops

Favour stability over innovation

# DevOps

DevOps: You build it, you run it

Apps are now more diverse:

- Polyglot
- Microservices
- Containers
- Use a wide variety of backing services: RDBMS, NoSQL, modern AI/ML tooling
- K8s is the polyglot app server of today

“You build it, you run it” means devops teams do everything on top of the infra

Needs a lot of skills in the devops teams, and leads to loads of variation:

- Inefficiency
- Not enough skills to run services professionally
- No centralised control over CVEs or enforcing cross cutting concerns

# About Golden Path, IDP and Platform Engineering

## Golden Path

- The Golden Path — as we define it today — is the ‘**opinionated and supported**’ path to ‘**build something**’ (for example, build a backend service, put up a website, create a data pipeline).



## Internal Developer Platform

- An internal developer platform is **the sum of all tech, tools and processes** that a platform engineering team binds into a **golden path** for **developers**.

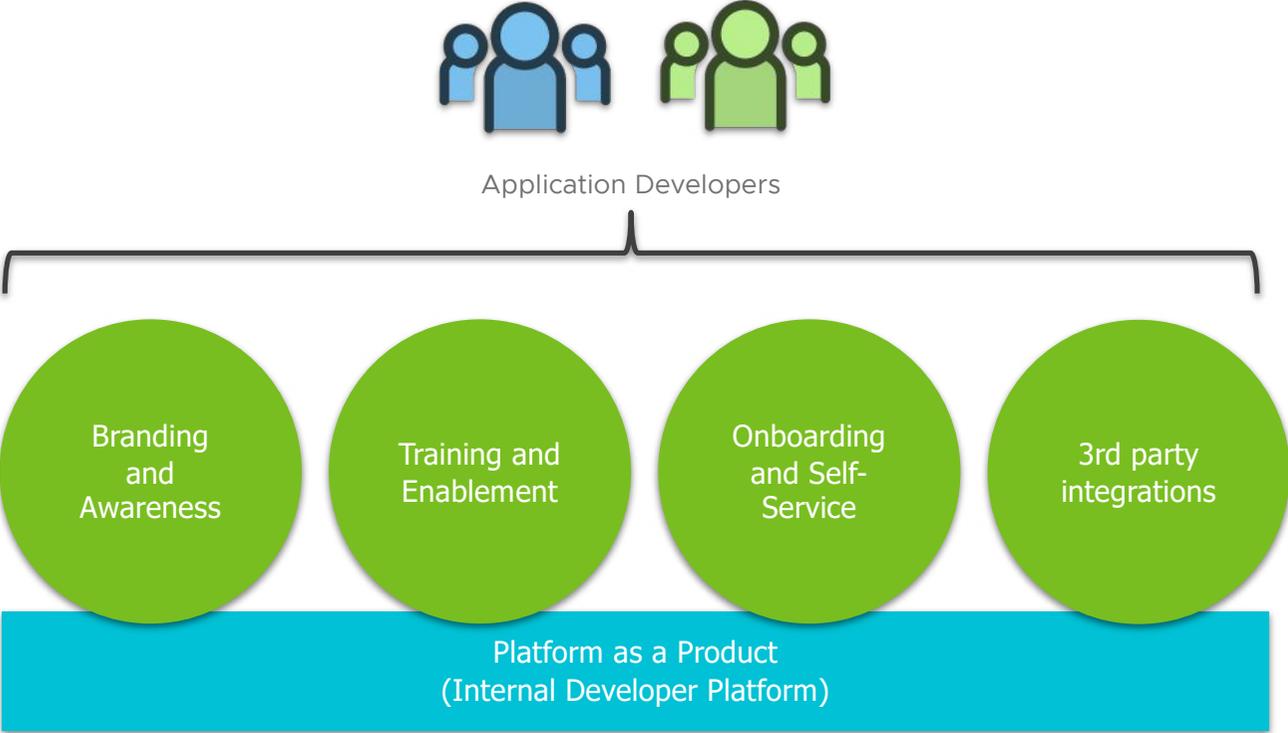


## Platform Engineering

- Platform engineering is the discipline of **designing** and **building** toolchains and workflows that enable **self-service capabilities** for software engineering organizations in the **cloud-native era**.

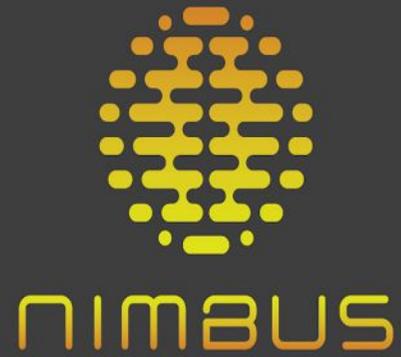


# Platform as a Product



# Platform as a product – under the hood





# What should be in an Internal Developer Platform?

A platform for developers

- Application-centric abstractions
- SLAs (security, resiliency, scalability, performance, compliance)
- Automated plumbing: from “git push” to production



Information Management

- APIs, docs, ownership, dependencies, resources
- Facilitate sharing, discovery, and contributions



Feedback!

- Consolidated view of status, logs, metrics, tracing, alerts
- App-centric, from “git push” to runtime



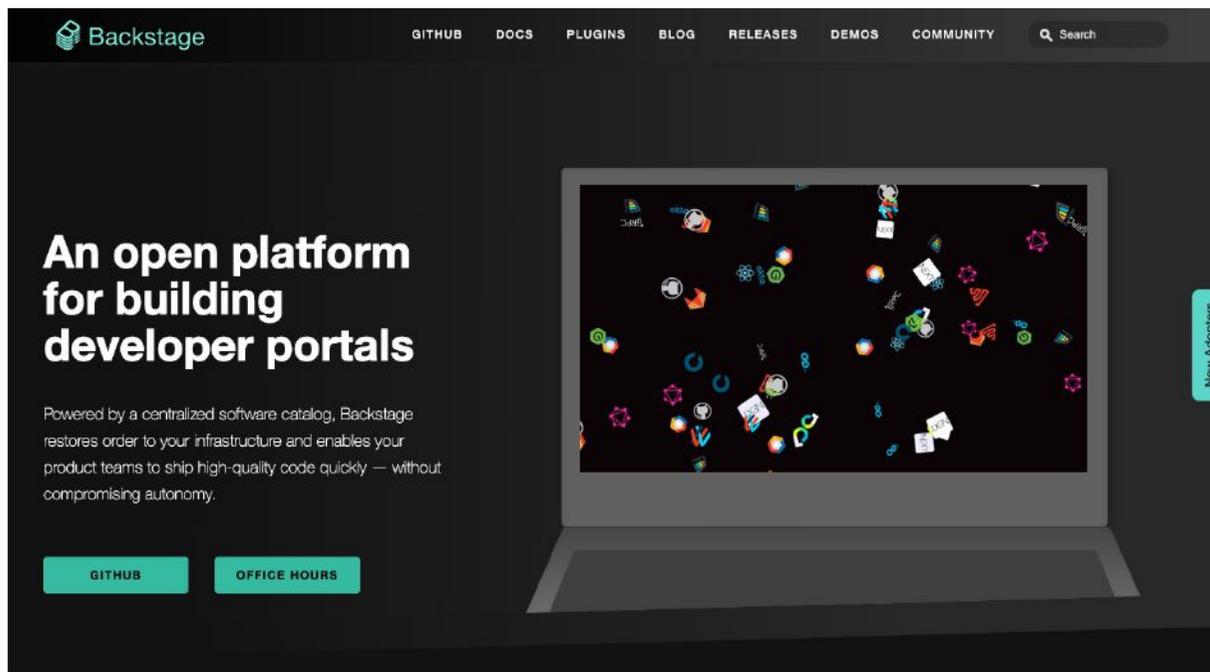
Enablement

- Golden Path → easy and obvious
- Patterns, conventions and solutions



# Internal Developer Platform

## Introduction to backstage

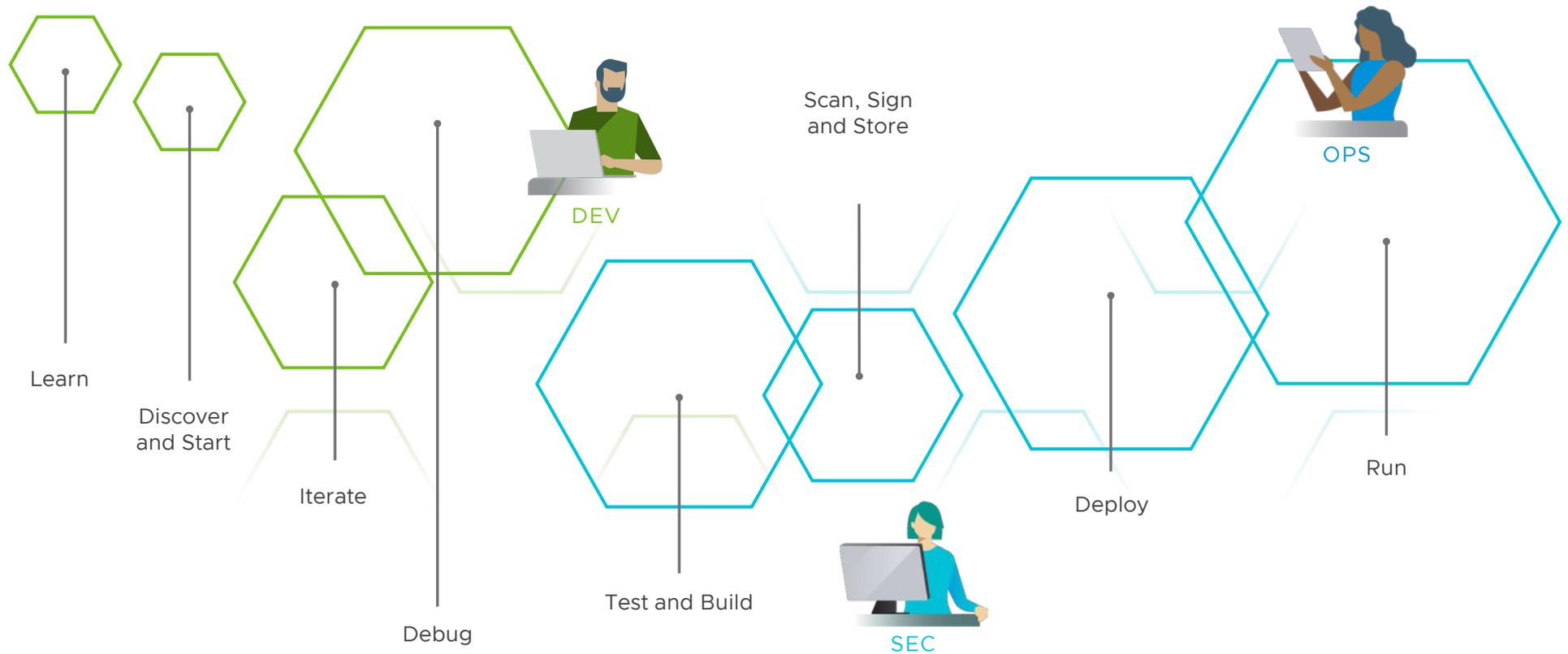


### Backstage

- Open platform to build developer portals
- Manage all your software, all-in one place
- A uniform overview for your teams
  - Software catalog
  - Software templates
  - TechDocs
  - Open source plugins
- Backstage takes care of the front-end, not necessarily of the back-end

# Build a rapid, secure path to production with TAP

Streamline DevSecOps experience coordinating the work between dev and ops



# Built with an open source-first mindset

Innovative, interoperable, scalable and secure solutions

Tanzu Application Platform is backed by some of the most mature and popular open-source projects available today

## In addition to Backstage Backstage

Garnering 200+ plugins Backstage has gained tremendous traction by helping organizations build self-service developer portals

## Carvel CARVEL

Developers build, deploy, and manage their own apps and package them so they are more easily distributable

## Cartographer CARTOGRAPHER

Operator teams create secure, reusable supply chains that define all of application CI and CD in one place

## And many more....



Building open-source software and contributing to communities is at the core of VMware's engineering spirit

# Supply Chain Orchestration vs Choreography

A story about linearity versus desired state

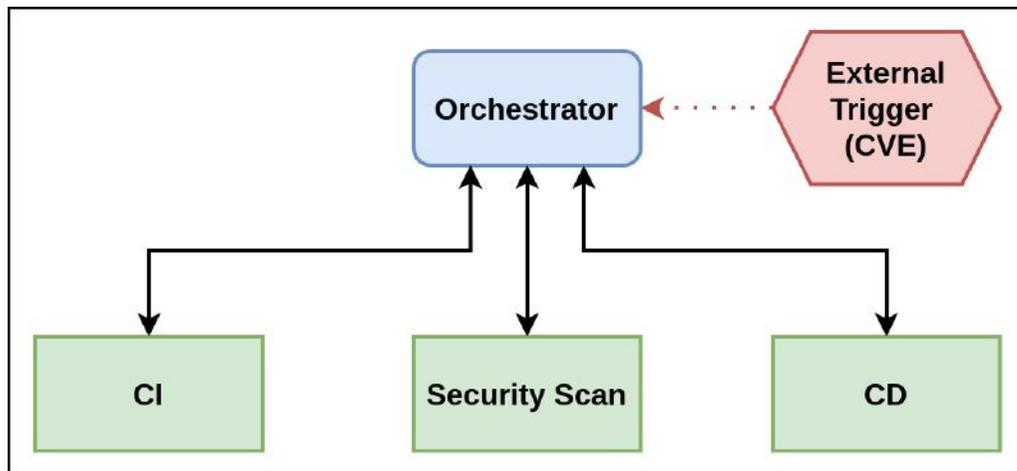
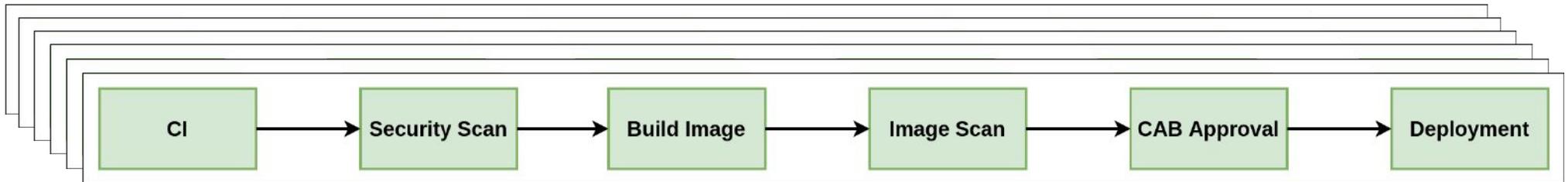


VS

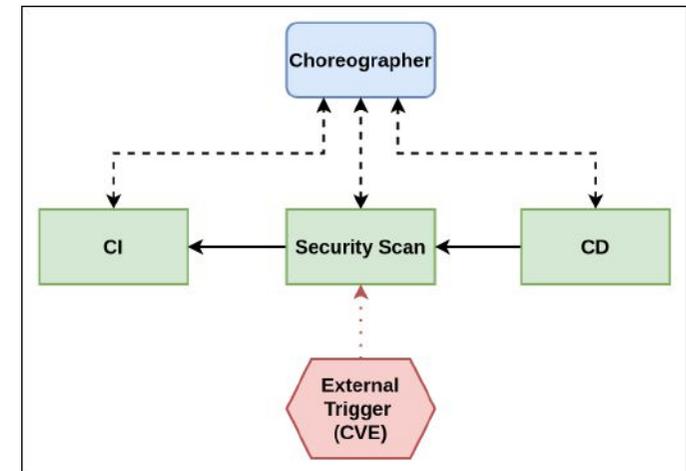


# Supply Chain Orchestration vs Choreography

A story about linearity versus desired state

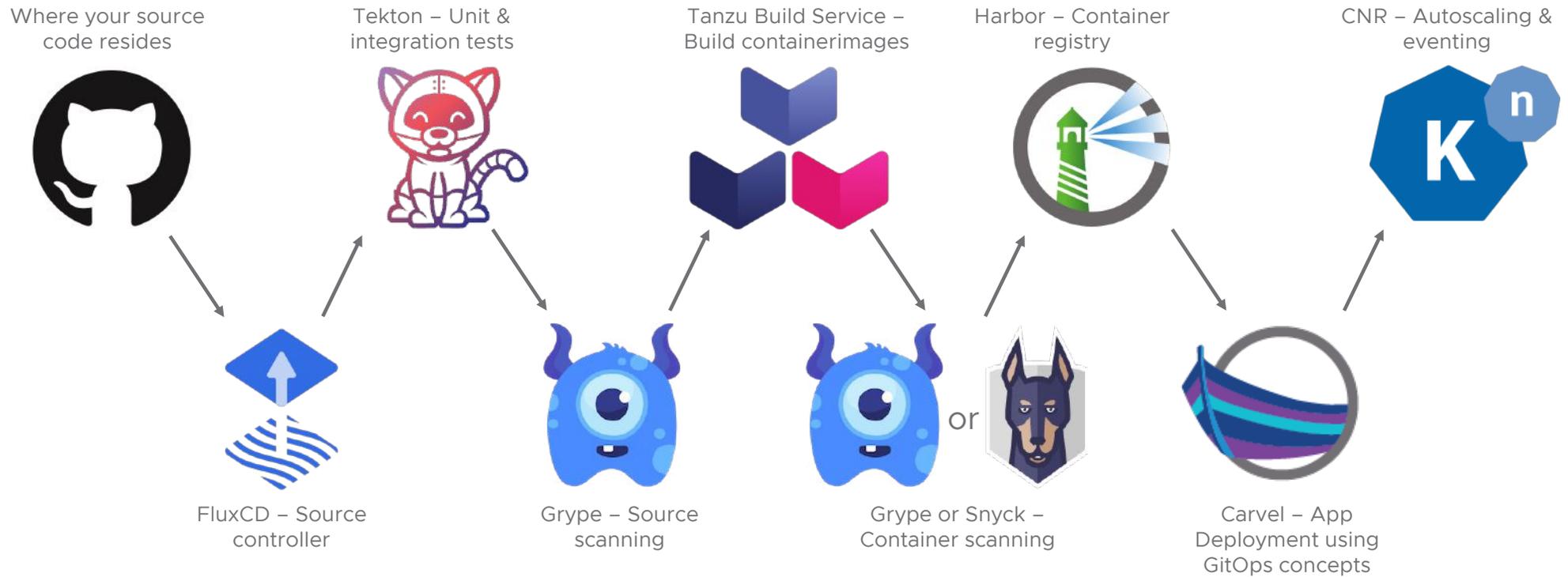


Linear Approach

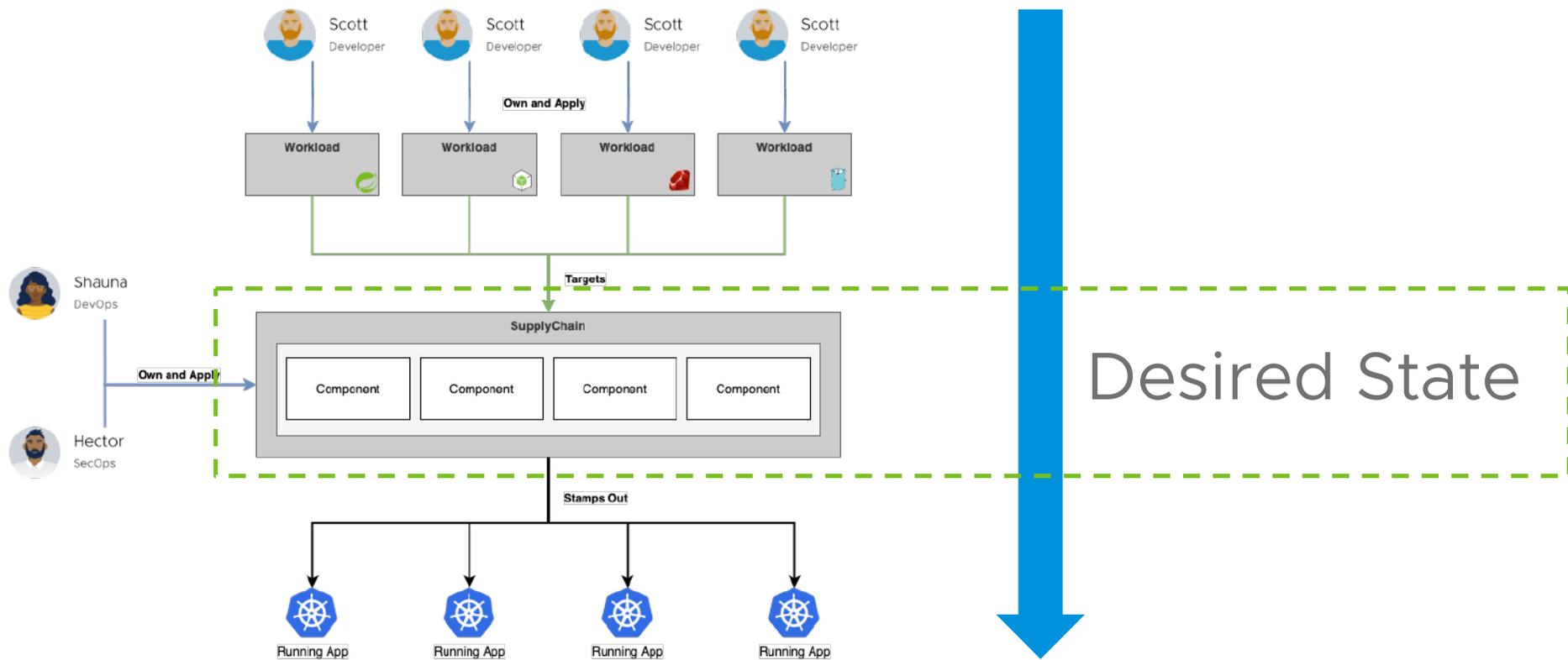


Desired State Approach

# Secure Supply Chain – An example



# Choreography with cartographer



# And now...for real

The screenshot shows the VMware Tanzu Application Platform interface for a pipeline named 'fastapi-test'. The pipeline is a linear sequence of stages: Source Provider, Source Tester, Source Scanner, Image Provider, Image Scanner, Config Provider, and App Config. Each stage is marked with a green checkmark, indicating successful completion. The 'Source Provider' stage is highlighted with a blue box. Below the pipeline, the 'Stage Detail: Source Provider' is expanded, showing its configuration and status.

**fastapi-test**  
Supply Chain: source-test-scan-to-url  
Supply Chain Cluster: host  
Delivery Cluster: host  
Errors: 0 Warnings: 0

**Source Provider** (18 days ago) → **Source Tester** (2 hours ago) → **Source Scanner** (12 days ago) → **Image Provider** (21 days ago) → **Image Scanner** (12 days ago) → **Config Provider** (3 hours ago) → **App Config** (2 hours ago)

**Stage Detail: Source Provider**  
18 days ago

**Overview**

- Name: fastapi-test
- Kind: GitRepository
- Source URL: <https://github.com/TanzuDK/fastapi-test.git>
- Version: source.toolkit.fluxcd.io/v1beta1
- Namespace: default

**Conditions**

Condition Type	Status	Last Transition
Ready	True	2023-02-16T11:50:11Z
ArtifactInStorage	True	2023-02-13T13:59:19Z

5 rows | 1-2 of 2

# Introduction to Tanzu Application Platform – Myles Gray



▶ 7 MAR 12:10-12:55



NETHERLANDS

Myles Gray (VMware)  
▶ Introduction to VMware Tanzu Application Platform

And also don't forget to attend the sessions of Christiaan Roeleveld & Sander Harrewijnen, Cormac Hogan and Robert Kloosterhuis + Olivier Bootsma

# VMware Tanzu Developer Connect Day

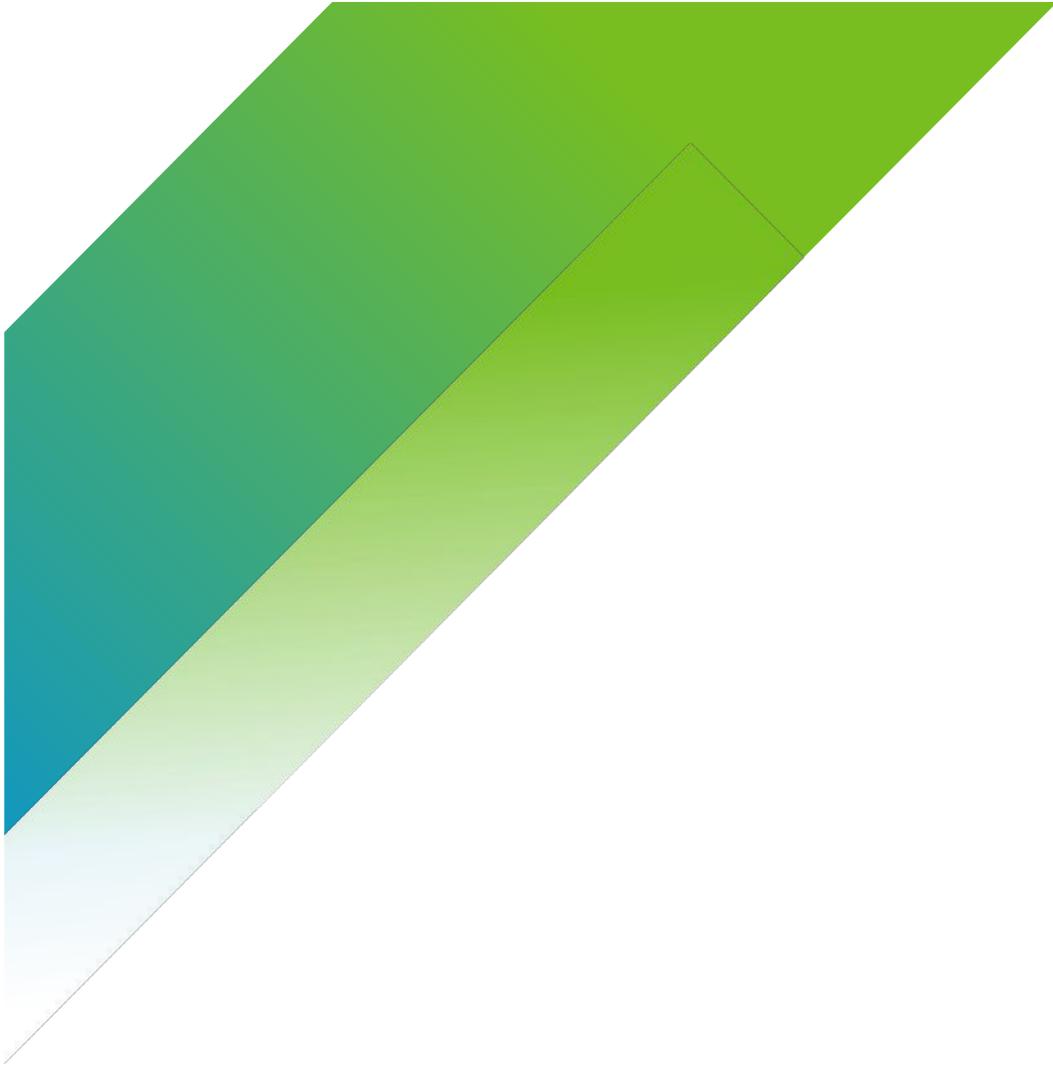
Datum: 4 april 2023,  
08:30 - 13:30 uur



Neem deel aan de VMware Tanzu Developer Connect Day: een gratis, live workshop waarin we verder inzoomen op de DevSecOps-toolchain & Tanzu Application Platform

[https://connect.tanzu.vmware.com/EMEA\\_P6\\_M1\\_DG\\_SW\\_Q124\\_Workshop\\_DeveloperConnectAmsterdam\\_TanzuLP.html](https://connect.tanzu.vmware.com/EMEA_P6_M1_DG_SW_Q124_Workshop_DeveloperConnectAmsterdam_TanzuLP.html)

**B Amsterdam | Registreer je nu!**



Thank You