



AWS
re:Invent

CON214-S

Policy-based management of hundreds of Kubernetes clusters

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Director, Product Management
VMware

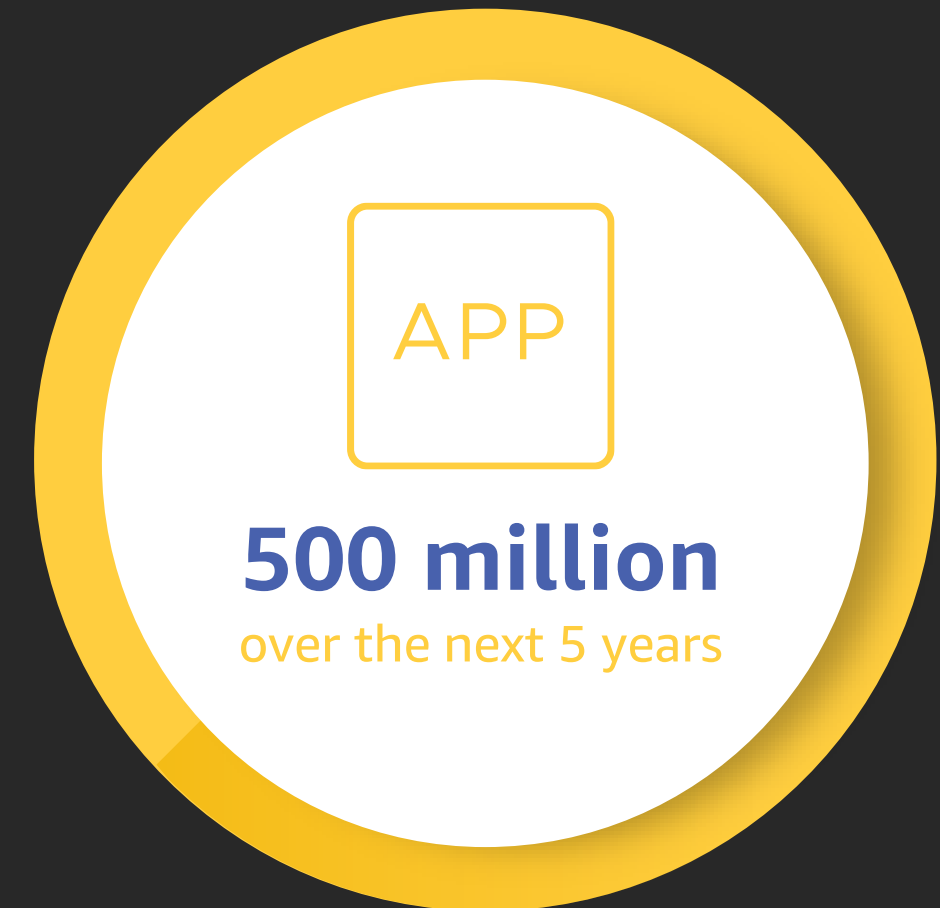
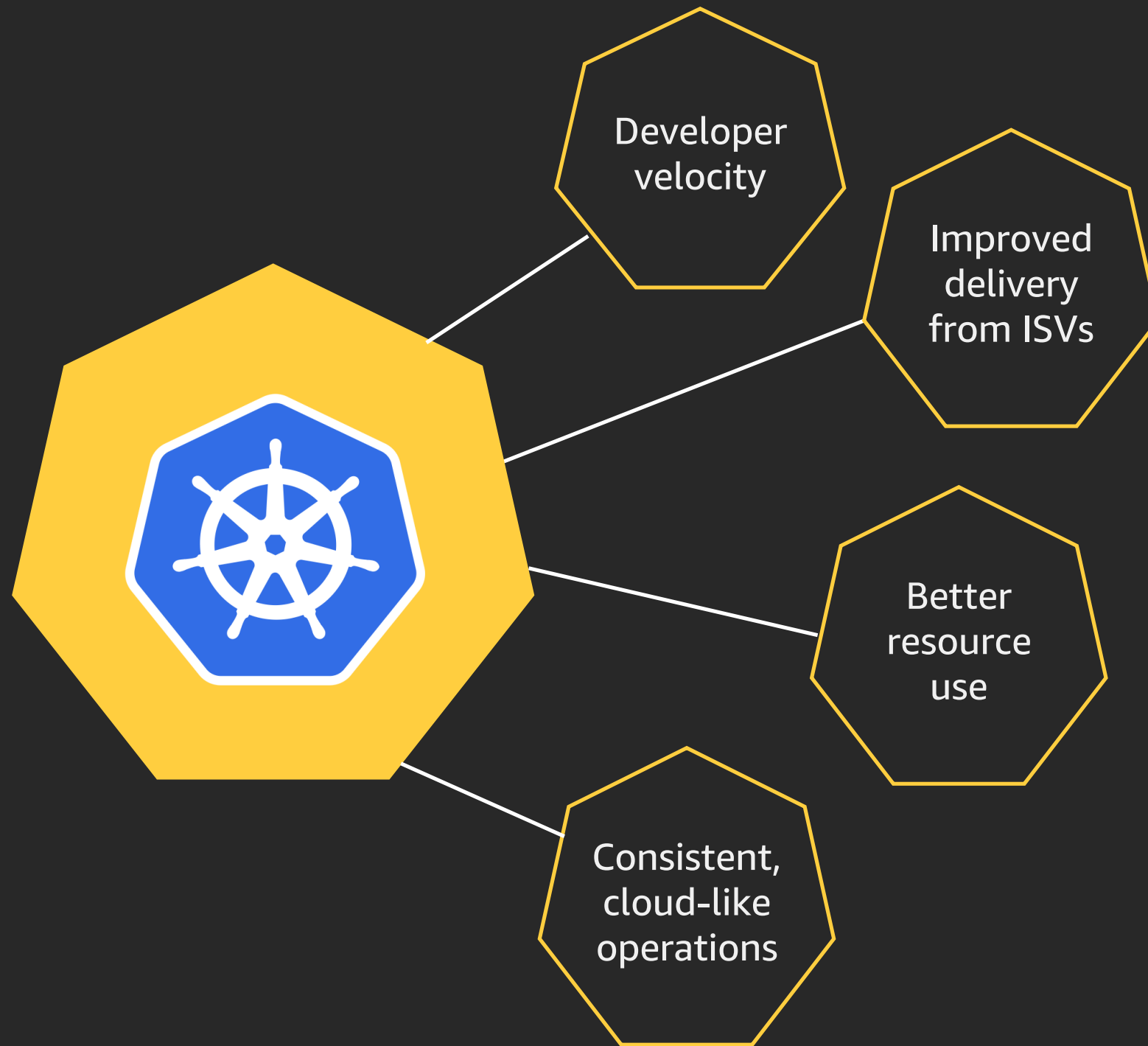
Megan Bruce

Senior Manager,
Product Marketing
VMware

Agenda

- Challenges of adopting Kubernetes in a fragmented, hybrid cloud environment
- How VMware is solving these challenges
- Demo: VMware Tanzu Mission Control
- Making the best use of Kubernetes with VMware and AWS
- Wrap-up and additional resources

Kubernetes: Bridging the world of dev and ops



The promise of Kubernetes



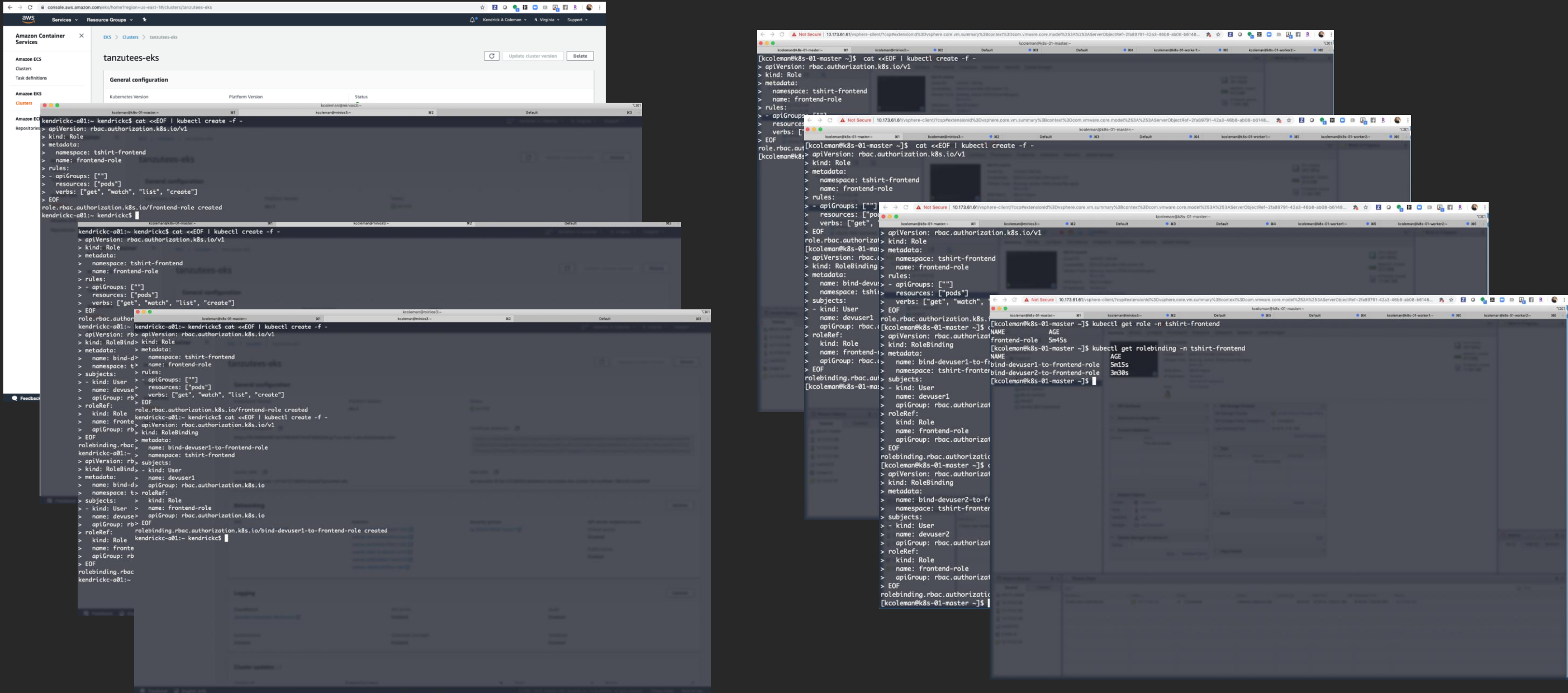
IT's growing reality: Fragmentation



- Manual configuration and management, siloed by environment
- Access, networking, security policies applied cluster-by-cluster
- Lack of cost visibility and control

More data centers, environments add ops burden

Multiple steps, manual updates



More modern apps means more clusters to manage



Introducing VMware Tanzu

Build, run, and manage modern apps



Build

Modern Applications

Existing | COTS | Cloud Native

Run

Kubernetes Grid

On Premises | Public Cloud | Edge

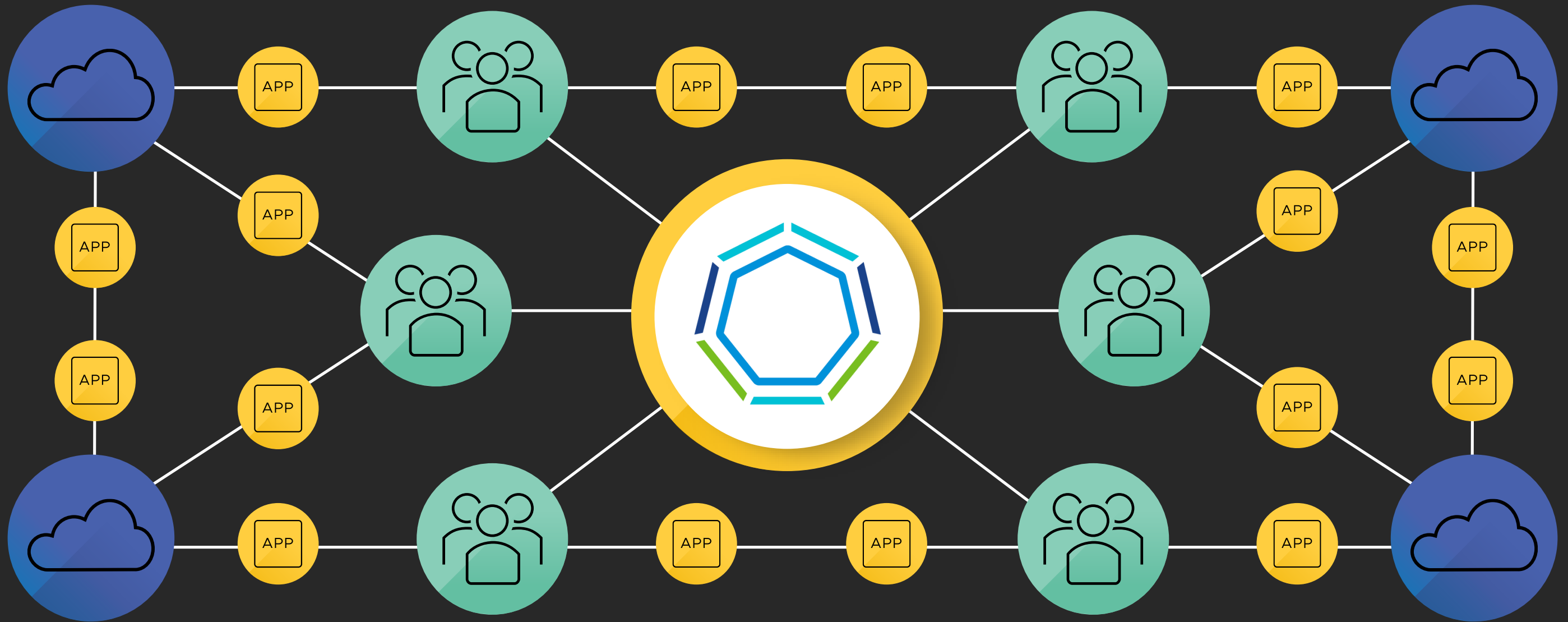
Manage

Single Control Point

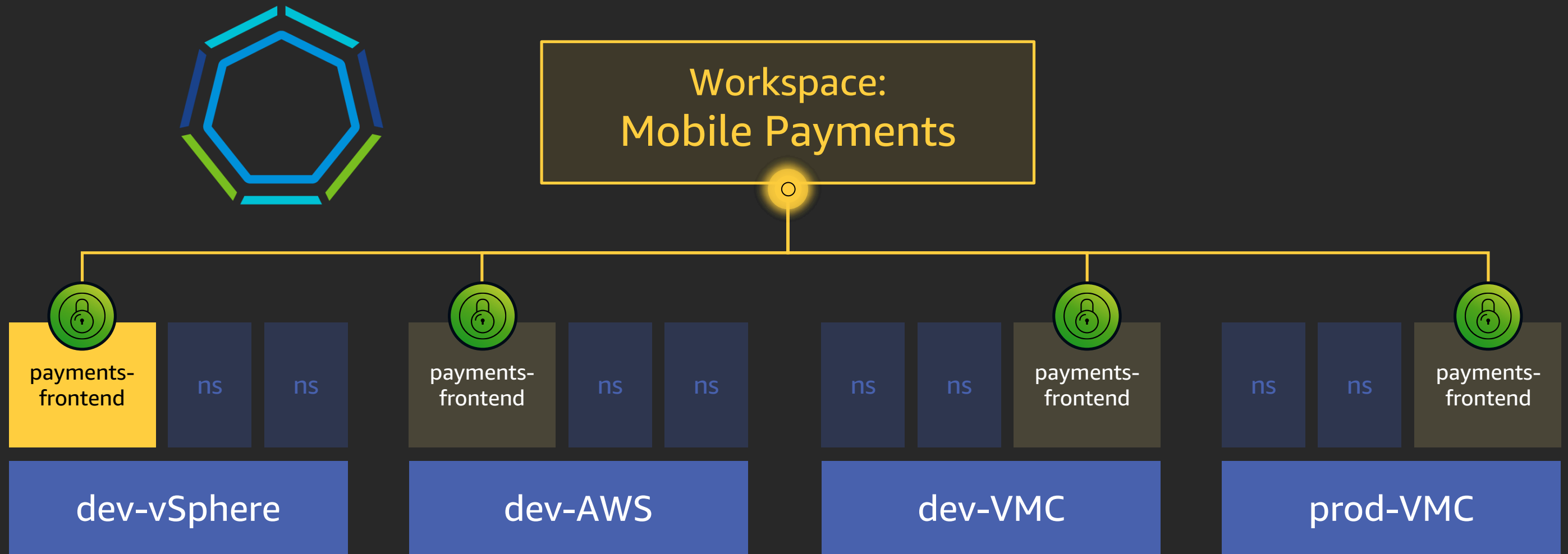
Multi-Environment
Multi-Cluster
Multi-Team

Demo

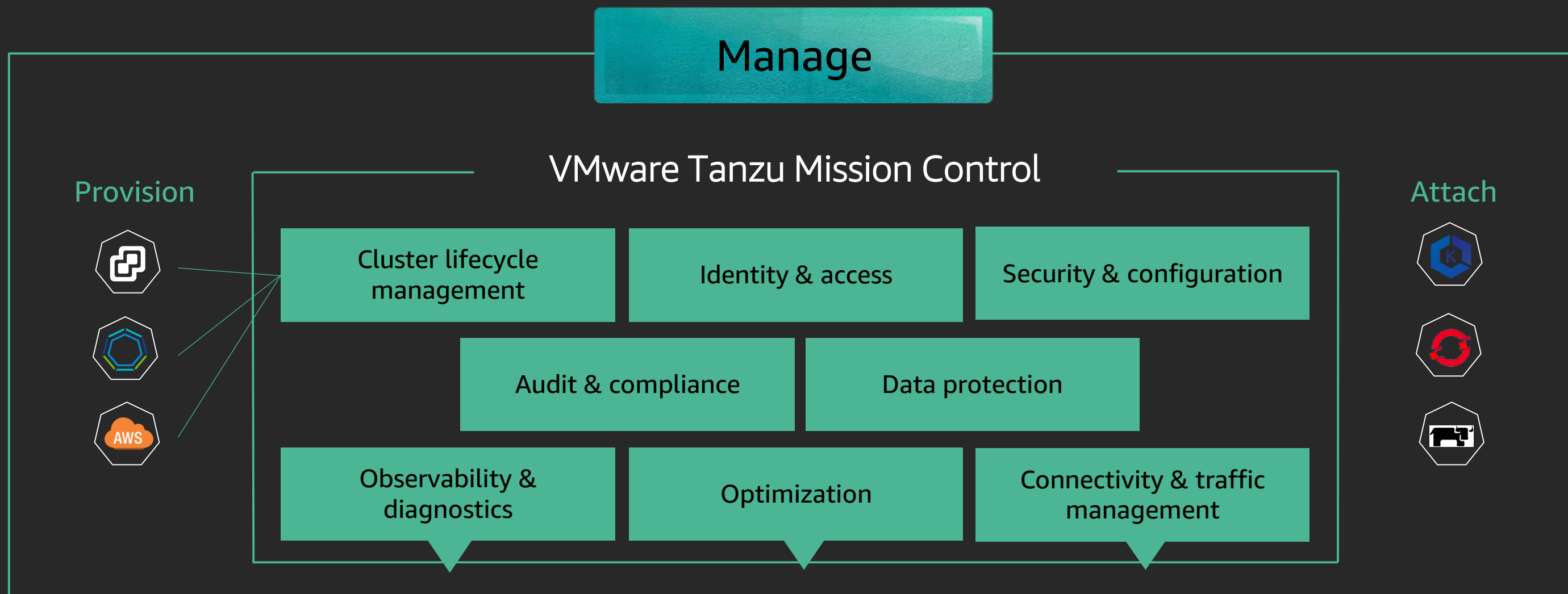
Solve for fragmentation—without limiting choice



Simplify operations across environments, for enterprise scale



Multi-cluster and multi-team management



 **WAVEFRONT**
by vmware®

 **CloudHealth**
by vmware®

NSX-Service Mesh

Manage Kubernetes using open-source technologies



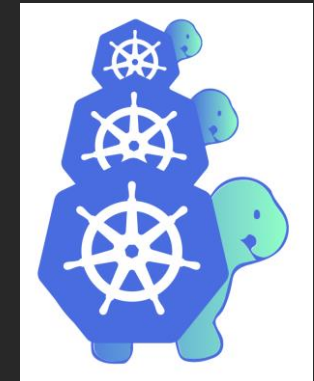
Validate your
Kubernetes
configuration



**Back up and
migrate**
Kubernetes
resources and
persistent
volumes



Handle **multi-
team ingress** and
advanced traffic
routing

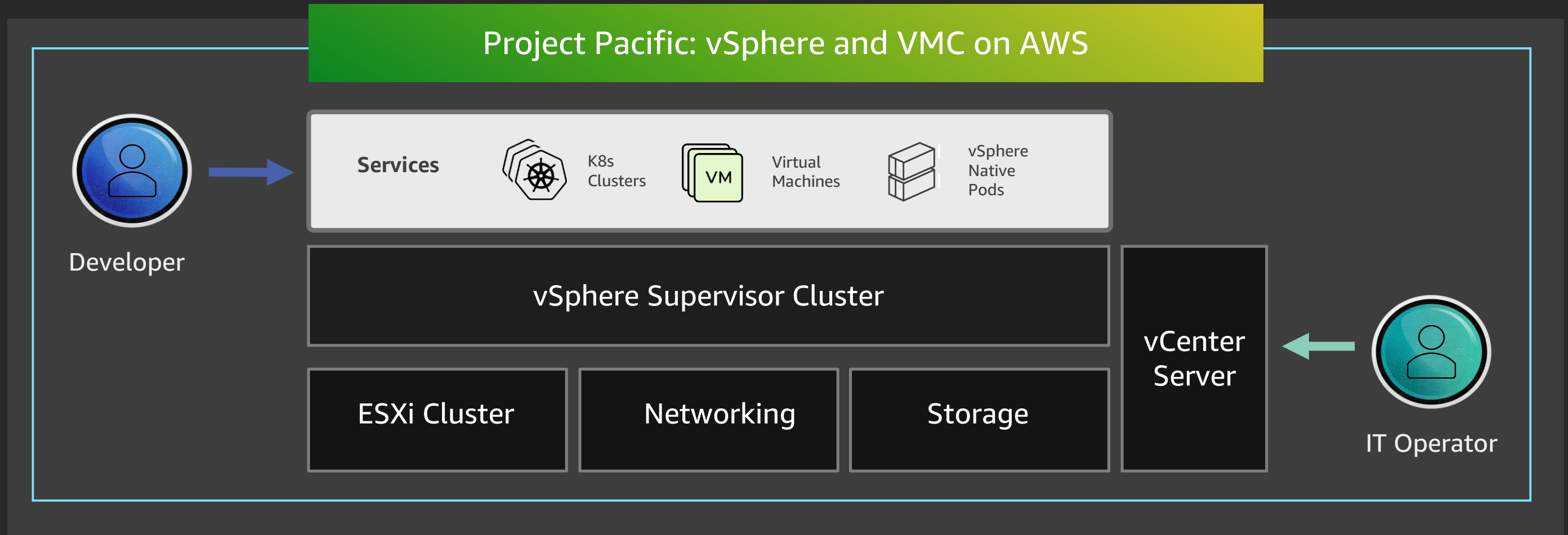


Cluster API

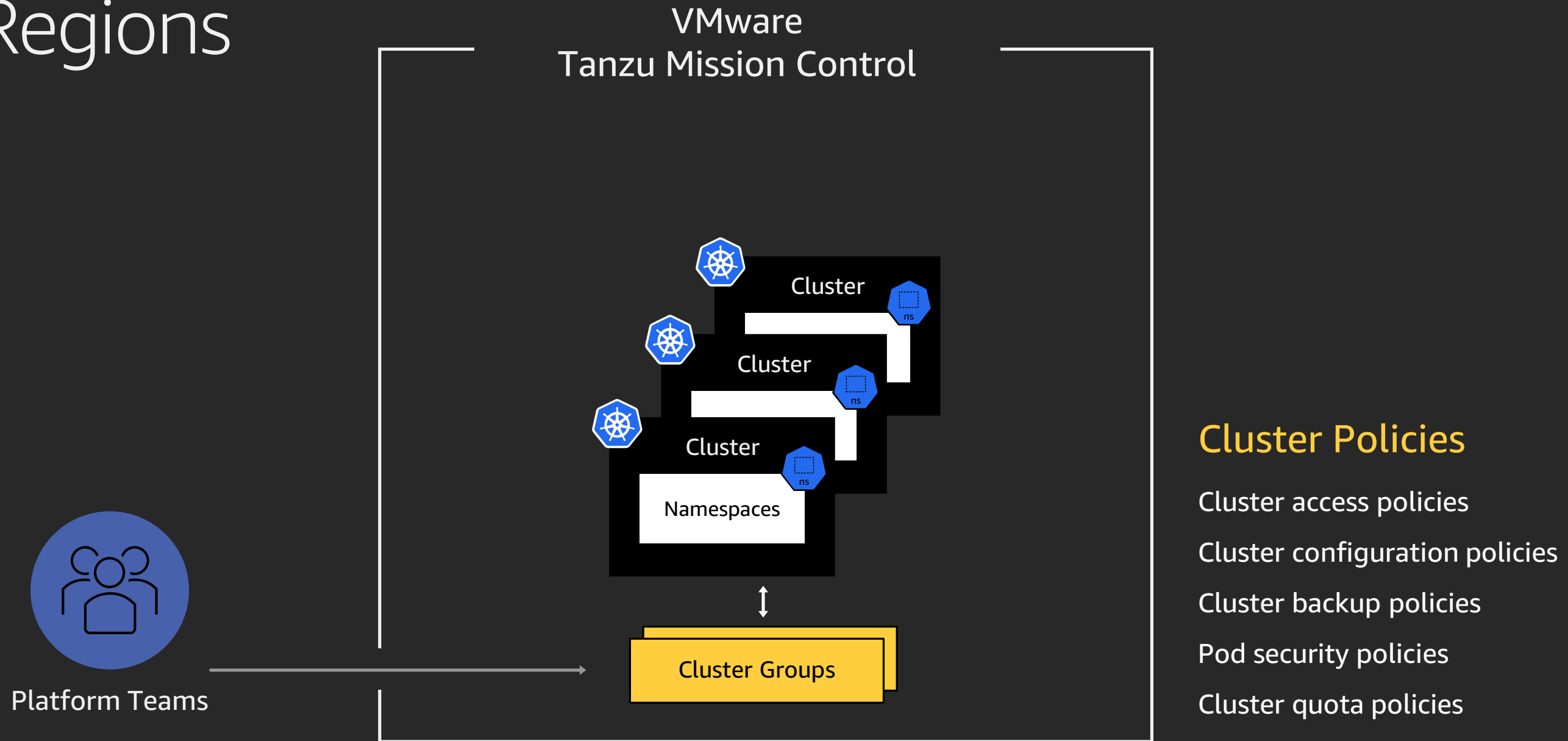
Manage **cluster
lifecycle** with
declarative,
Kubernetes-style
APIs

VMware and AWS: Start where you are to adopt Kubernetes

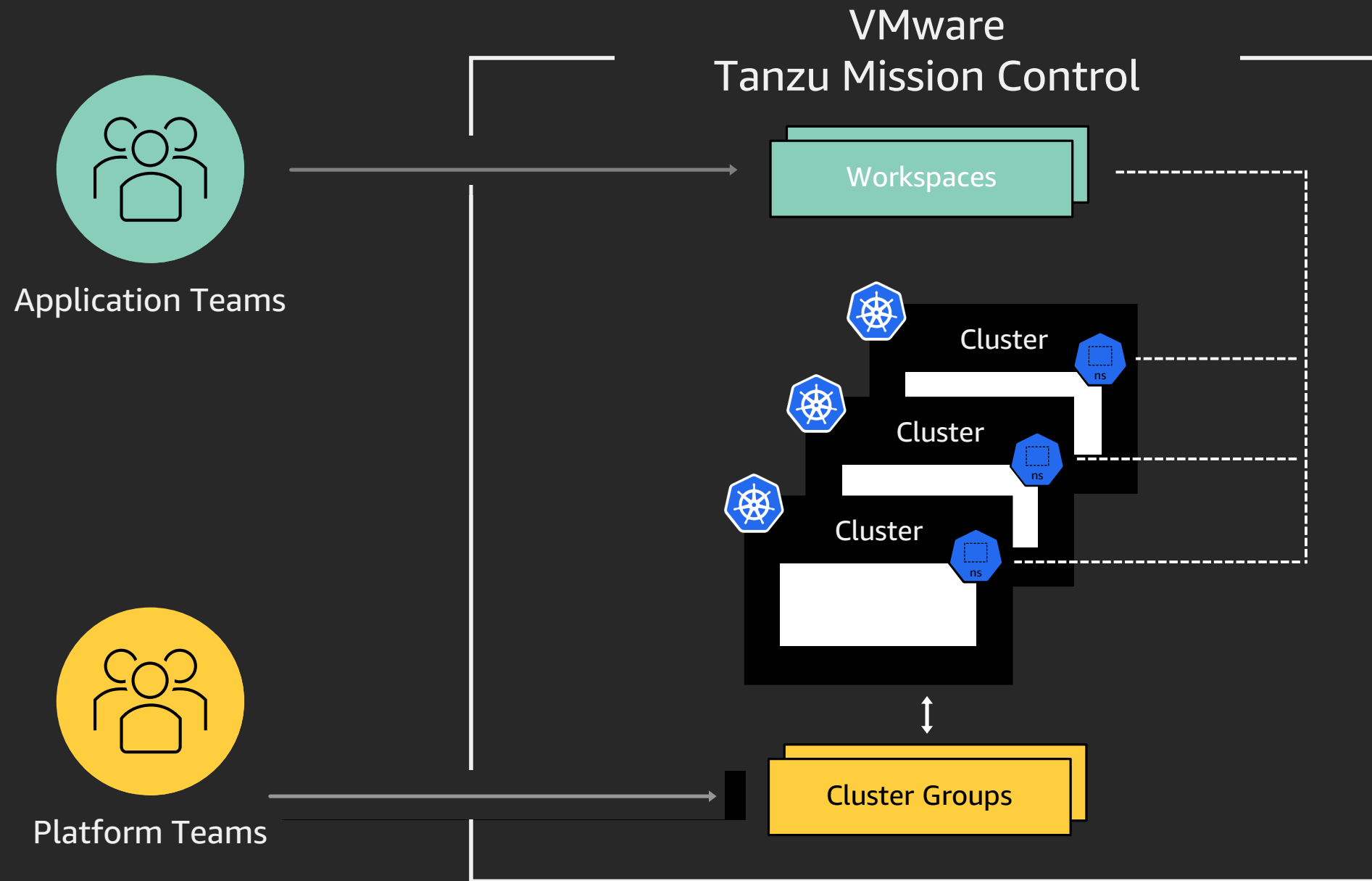
1. Modernize your infrastructure



2. Secure clusters across data centers and AWS Regions



3. Onboard your application teams



Workspace Policies

- Namespace access policies
- Namespace configuration policies
- Namespace backup policies
- Network policies
- Namespace quota policies

Cluster Policies

- Cluster access policies
- Cluster configuration policies
- Cluster backup policies
- Pod security policies
- Cluster quota policies

4. Manage, operate, and scale





VMware Tanzu

Build

Pivotal



bitnami

Run

VMware PKS | Project Pacific

Manage

**VMware Tanzu
Mission Control**

Learn more

Watch TGIK

Joe Beda and special guests dig into community projects and topics every Friday at 1PM PT



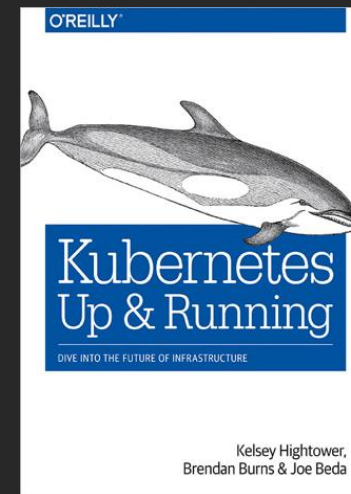
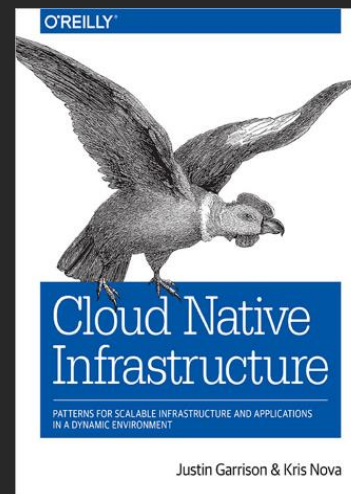
Visit KubeAcademy

Access free, on-demand training on Kubernetes fundamentals at kube.academy

Read eBooks

Our team has co-authored

- *Kubernetes Up and Running*
- *Cloud Native Infrastructure*
- *Managing Kubernetes*



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cloud.vmware.com/tanzu

Let's talk

Join us at the **VMware booth (#2108)** for a 1x1 demo and more info about VMware Tanzu, and learn how to use these solutions across your hybrid cloud environment with VMware and AWS



VMware Tanzu

Thank you!

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survey in the mobile app.