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Reduce developer friction with Tanzu and Amazon EKS

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Agenda

Application modernization with VMware Tanzu

VMware Tanzu and Amazon EKS - better together

- Tanzu Application Platform
- Tanzu for Kubernetes Operations

Q&A

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THE RACE TO BECOME

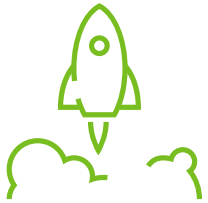
Digital Smart

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Common Modern Application Challenges

4–5x

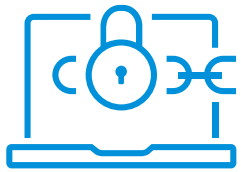
faster revenue growth for companies with a higher **developer velocity** index



- Complexity of cloud-native software
- Friction in path to production
- Steep Kubernetes learning curve

300%

increase in **software supply chain** attacks YoY



- Vulnerabilities in OSS
- Compromised pipeline tools
- Code and artifact integrity

30%

using **Kubernetes** with more than 50 clusters in operation



- Lack of internal experience and expertise
- It is hard to hire needed expertise
- Kubernetes/cloud-native speed of change

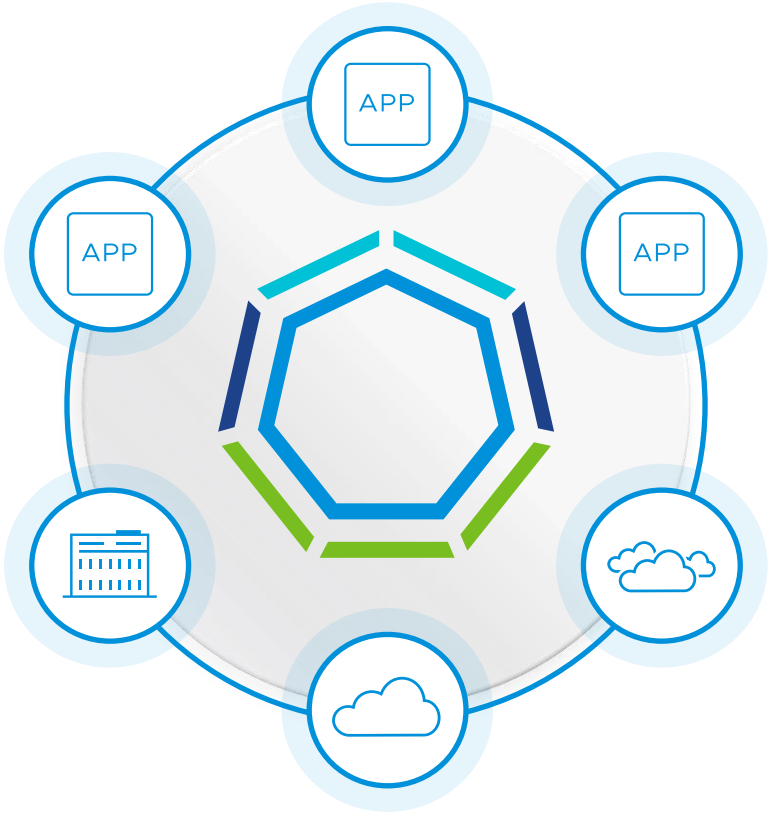
1- Developer Velocity Survey, McKinsey & Company, 2020
2- 2021 Software Supply Chain Security Report, Argon
3- The State of Kubernetes 2022, presented by VMware

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VMware Tanzu Modern Applications Platform

VMware Tanzu Application Platform

Consistent developer experience for Kubernetes



VMware Tanzu for Kubernetes Operations

Modern cloud-native platform operations for virtually any cloud

VMware Tanzu Labs

Cloud-native consulting services for modernizing, building, and managing applications

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Must-Have Attributes of an Application Platform

Enables teams to **self-service** & collaborate with the proper **separation of concerns**



DEV

Shift-left security is integrated from the **beginning** of app development



SEC

Pluggable and **adaptable** to requirements and **standardizes** best practices

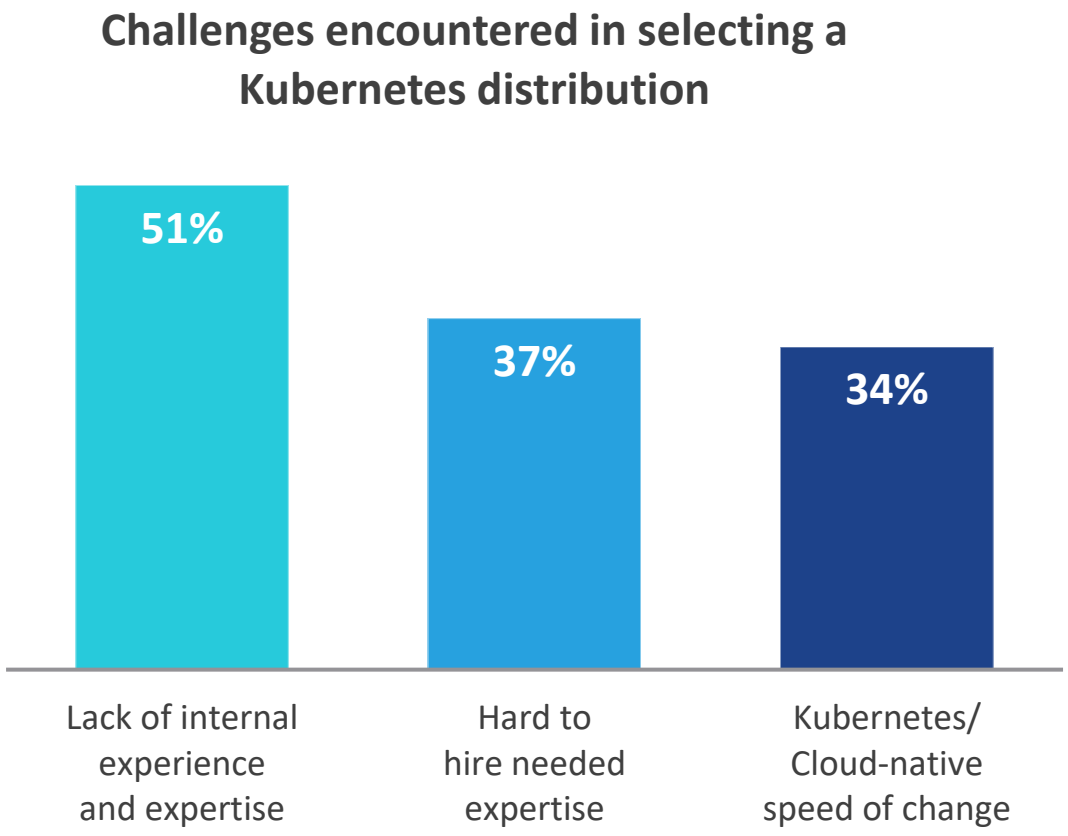


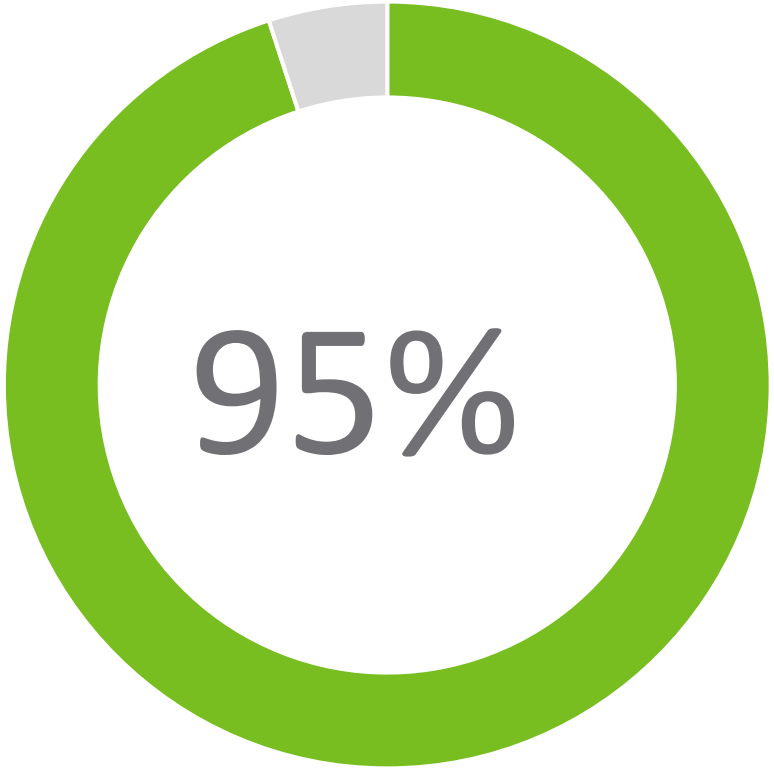
OPS

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What about Do It Yourself?

You can and probably are to some extent, but there are challenges





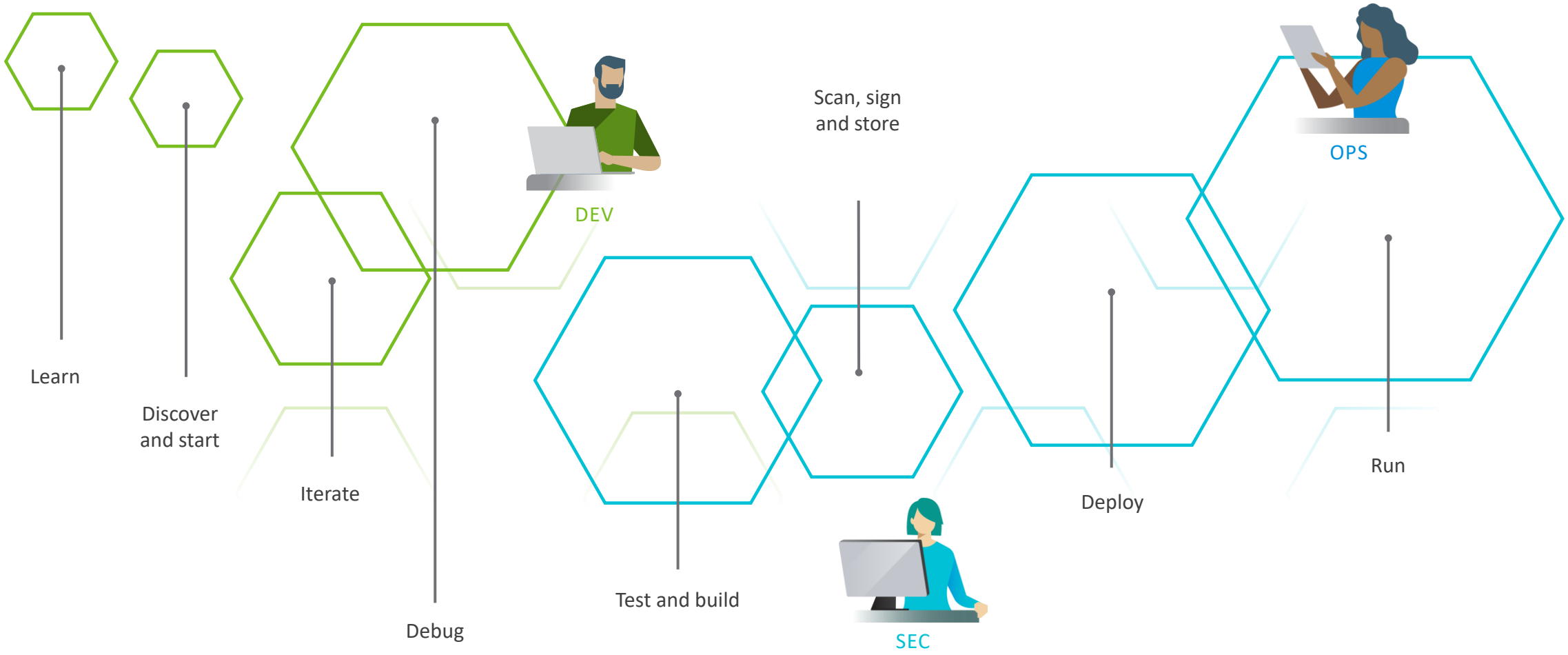
Have difficulty selecting, deploying, and managing Kubernetes

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*Based on a survey of 776 IT and software development professionals in VMware's "State of Kubernetes 2022" report

Build a Rapid, Secure Path to Production

Streamline DevSecOps experience, coordinating the work between dev and ops



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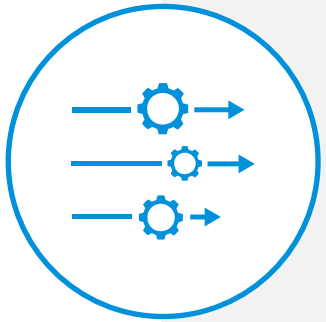
Tanzu Application Platform

A superior developer experience on Kubernetes





Unlock developer productivity



Build rapid yet sustainable path to production

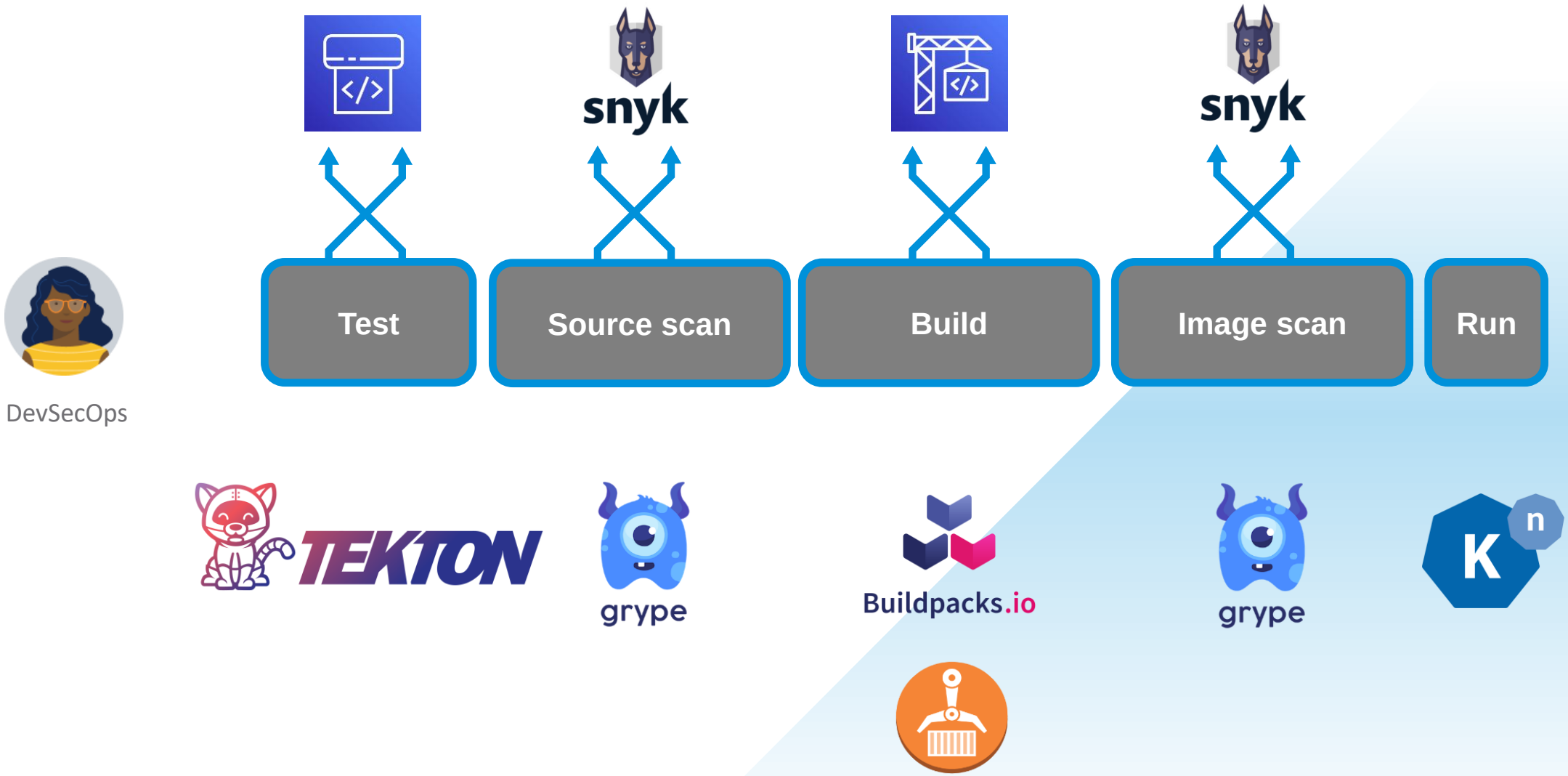


Coordinate the work of dev and ops

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Tanzu Application Platform

Test and scan supply chain



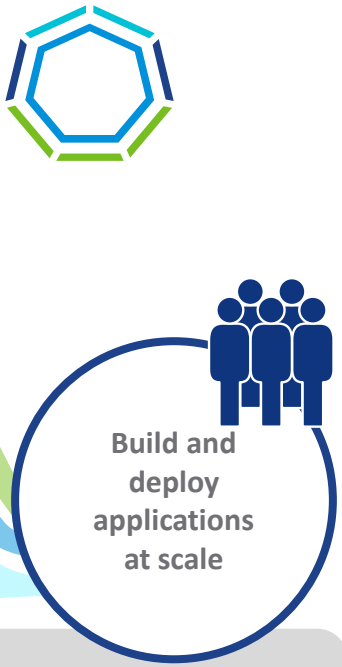
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Building a Frictionless Developer Experience

Unlock developer productivity on Amazon EKS

Build secure, rapid, sustainable path to production integrated with AWS

Rely on a scalable, streamlined DevSecOps experience



Amazon EKS allows you to build reliable, stable, and secure applications in virtually any environment

aws

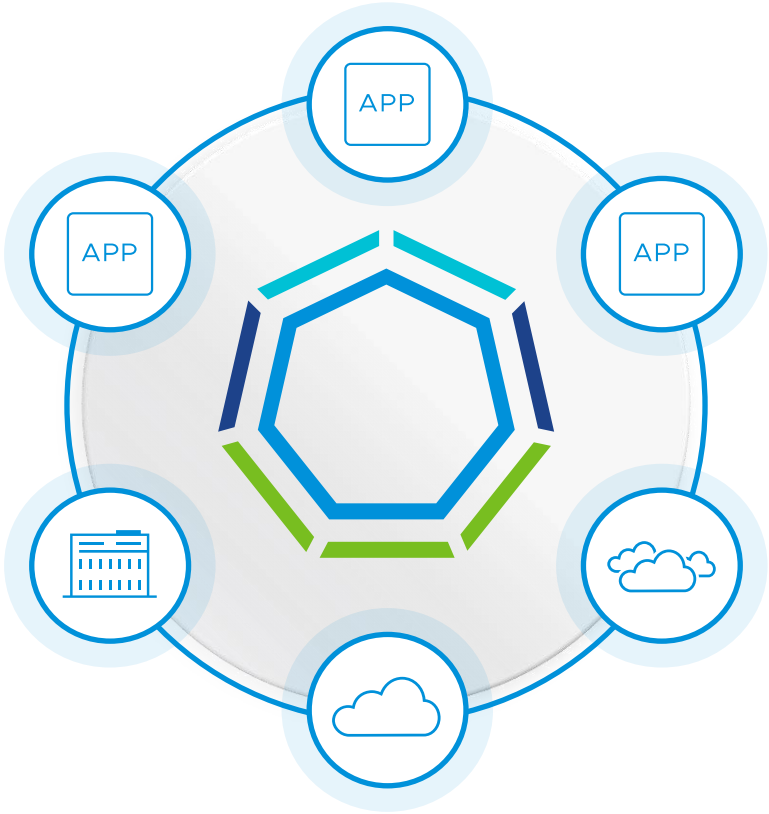
Amazon EKS

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Tanzu for Kubernetes Operations

With Amazon EKS

Andrew Scorsone, Senior Product Manager,

VMware Tanzu

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VMware Tanzu for Kubernetes Operations

The foundation for modern container infrastructure in the cloud



SIMPLIFY • SECURE • OPTIMIZE

Allows self-service access to the right infrastructure abstractions and a conformant Kubernetes platform

Automates cloud management through a centralized, intuitive control console

Establishes, encrypts, and **secures** access, connection, and compliance requirements across the entire cloud estate

Monitors, observes, and unifies data-driven insights to ensure dependable infrastructure and application performance

Optimizes resource utilization and reduces operating costs

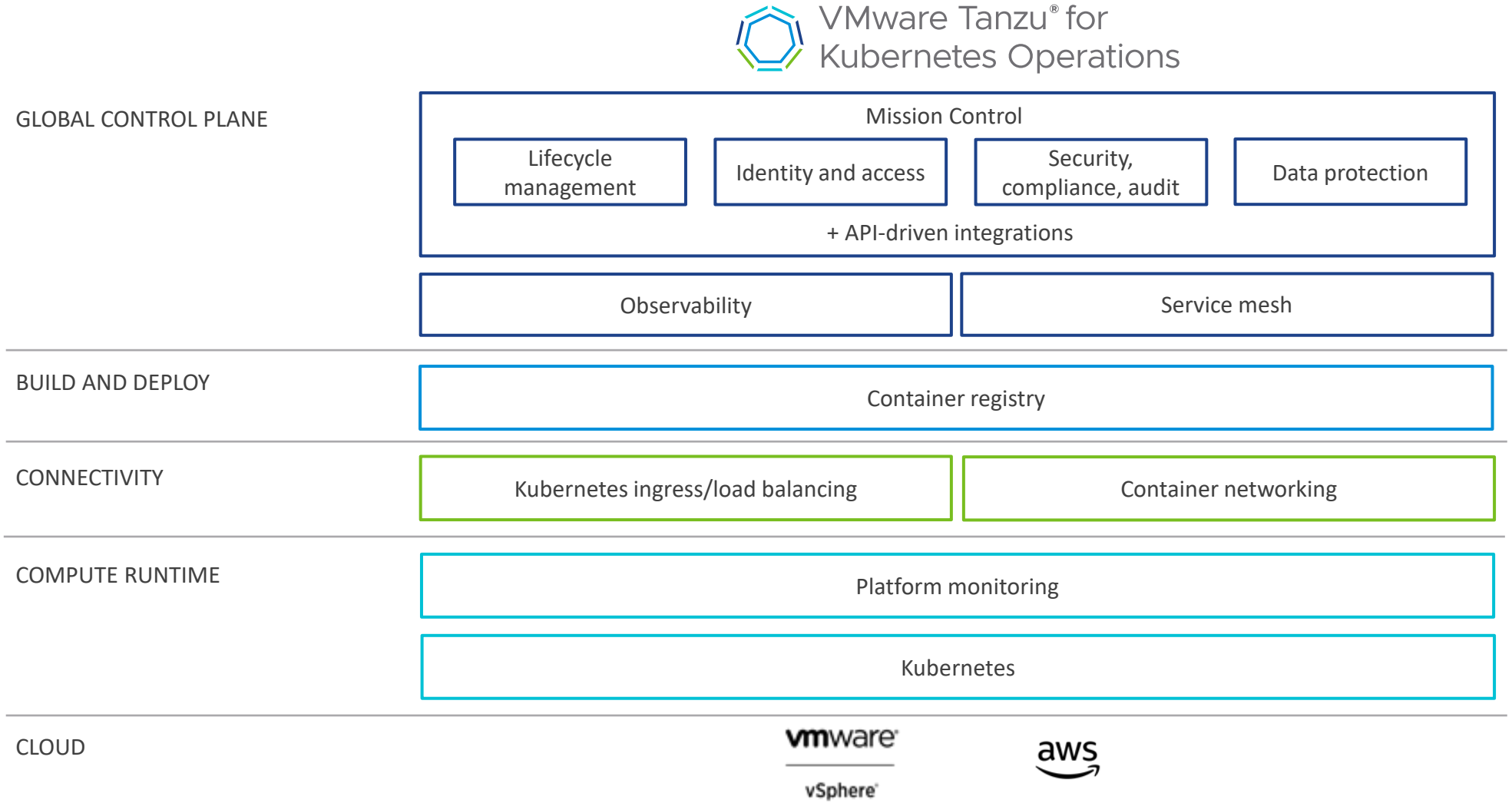
VMware Tanzu Labs

Provides the **expertise** to build and run a consistent Kubernetes environment at scale for all containerized applications

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Foundation for a Modern Container Infrastructure in the cloud

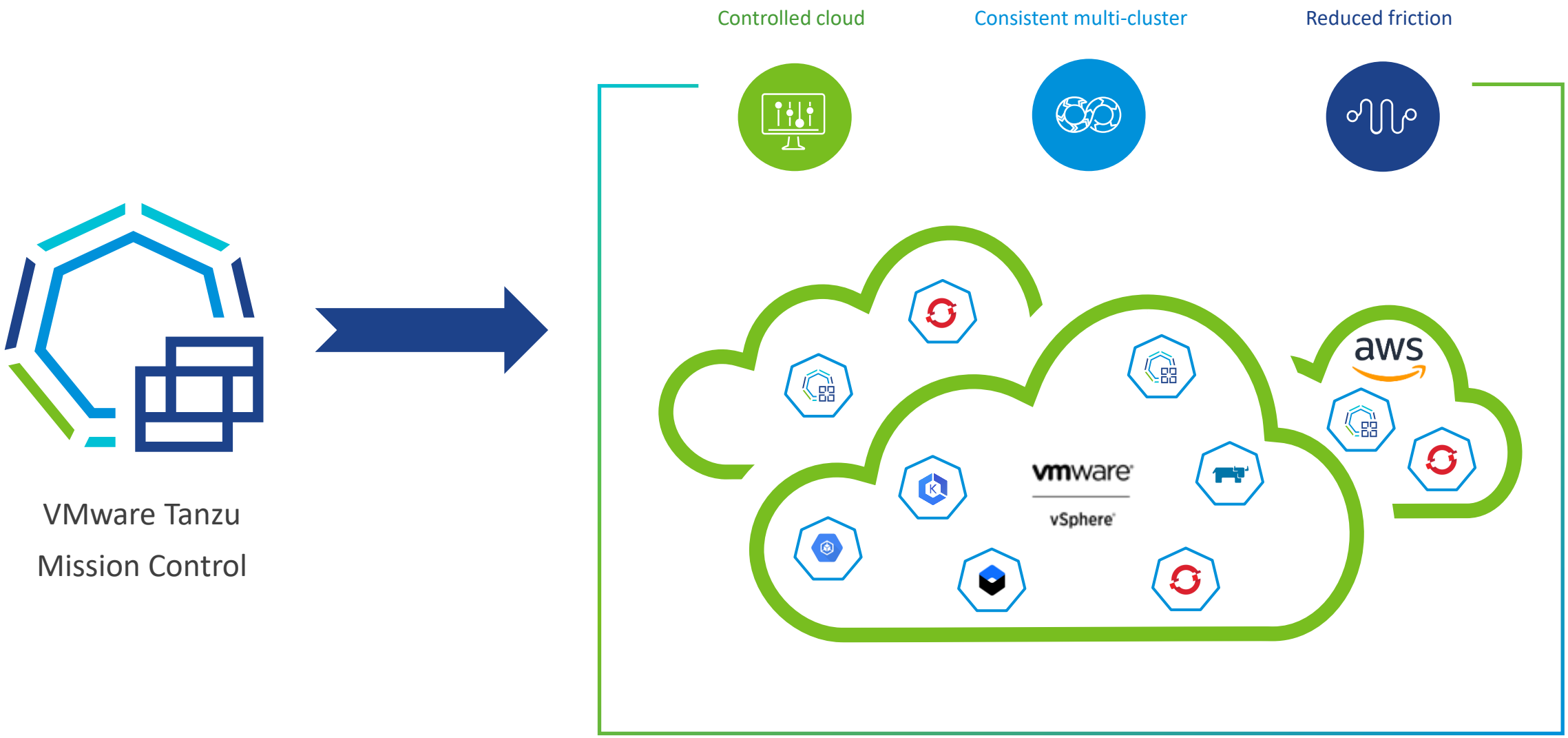
Provides core elements needed to stand up and operate cloud-based K8s platform



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VMware Tanzu Mission Control

Centralized management hub with a robust policy engine that simplifies Kubernetes management



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Tanzu Mission Control Capabilities

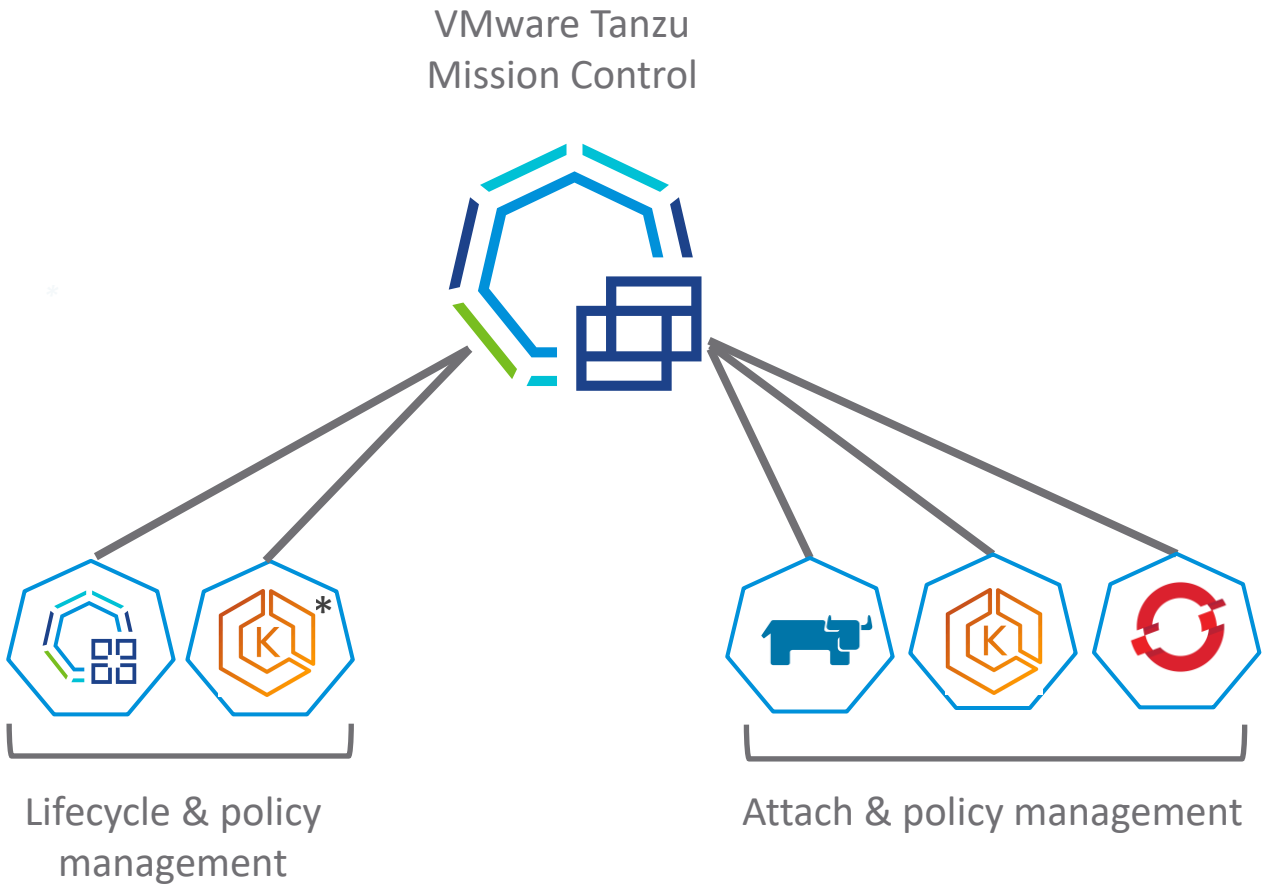
More than a control plane



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Consistent multi-cluster Kubernetes estates

Manage Day 2 administration more efficiently for different cluster types



***New**

Outcome

Simplified and more efficient multi-cluster management on all supported cluster types

- Enhance security
- Increase visibility
- Manage costs
- Observe cluster health
- Enforce quotas

Benefit

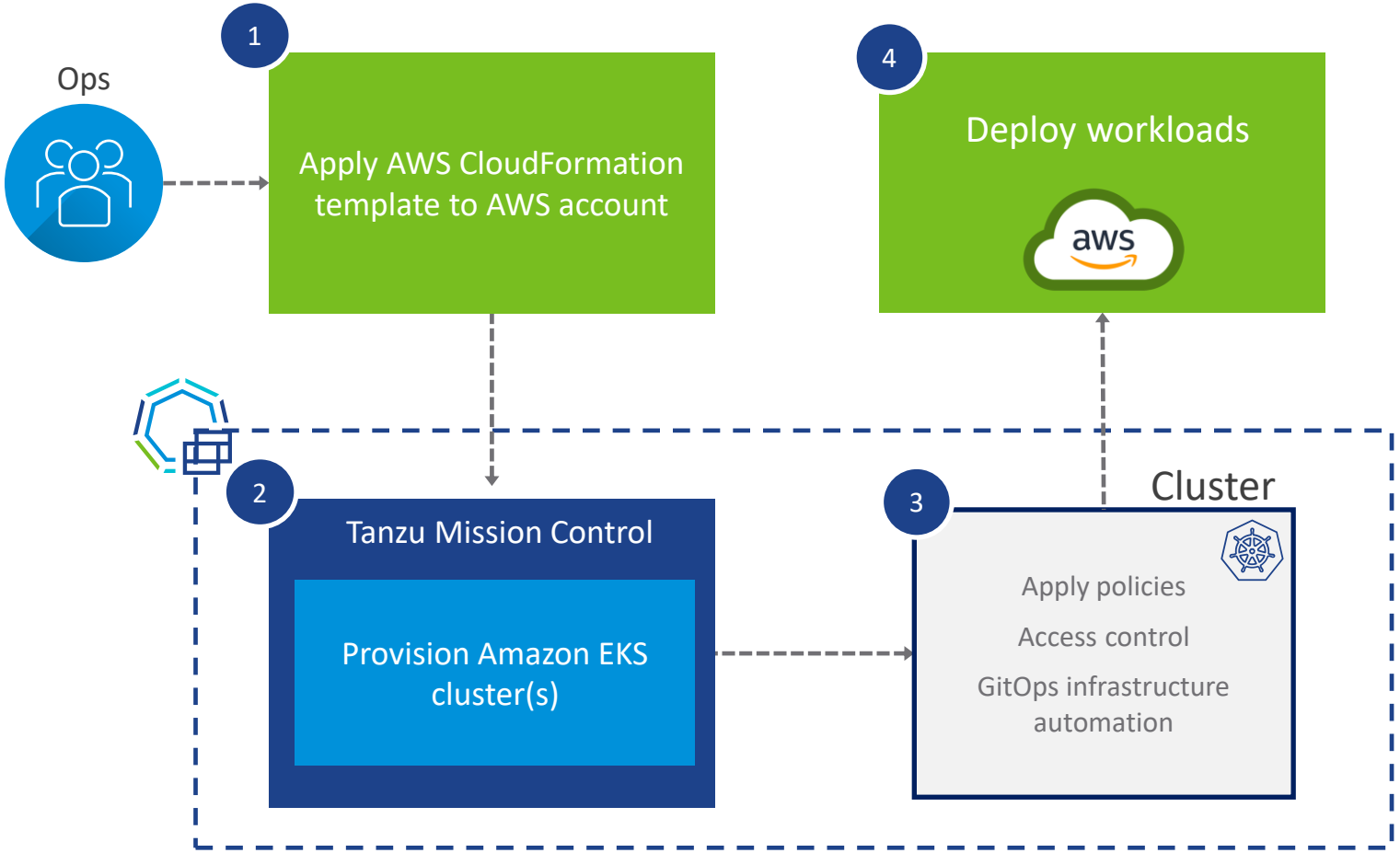
Multi-cluster consistency increases DevOps pace

Consistency ensures more predictable route to redeployments

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Amazon EKS Lifecycle Management Workflow

How Amazon EKS lifecycle management works through Tanzu Mission Control

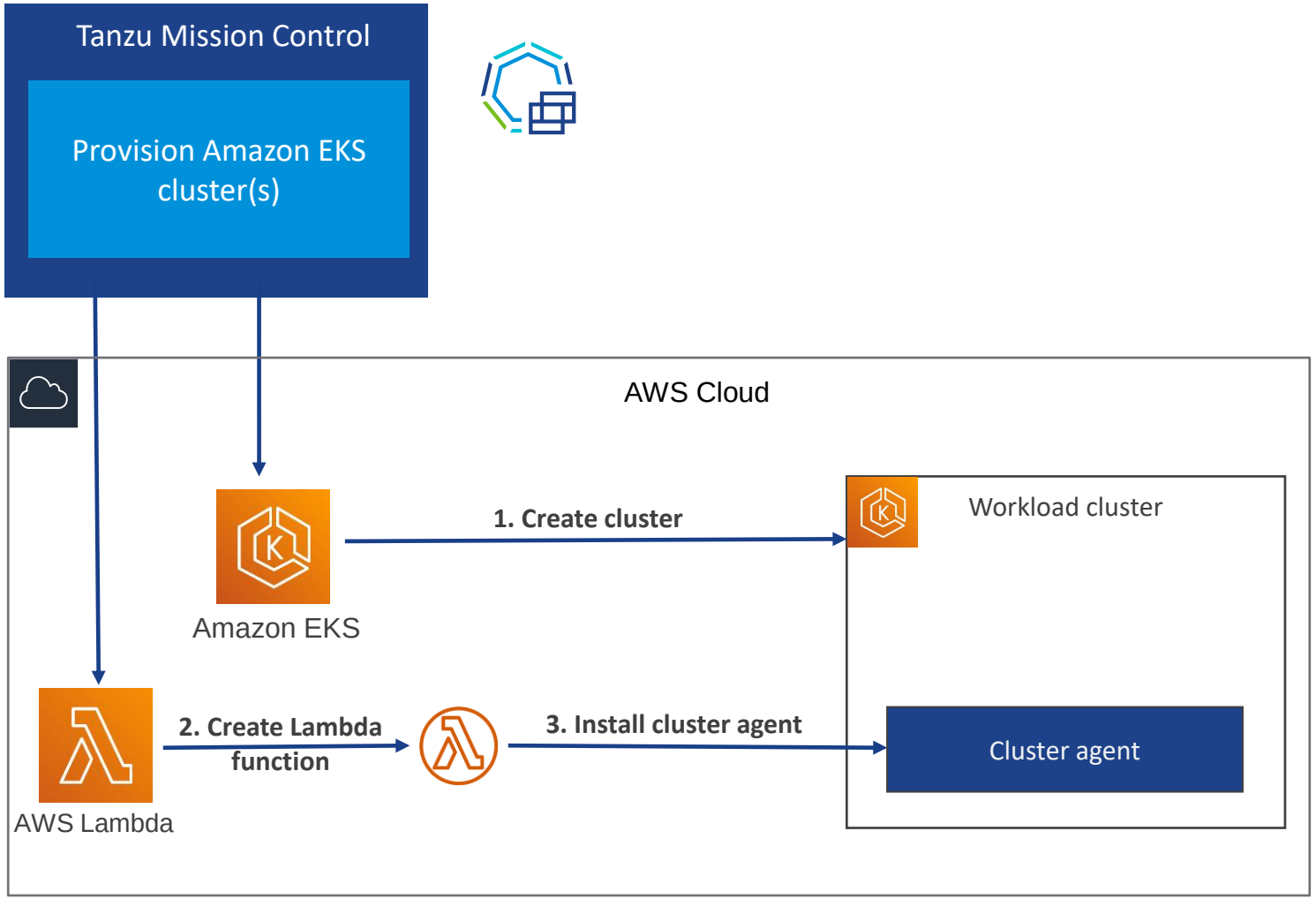


1. Set up permissions in your AWS account, reducing your time to value and reducing the number of administrative clicks

   - Defaults can be configured on AWS for future efficiency
   - Cluster specific metadata in configuration/propagated with pre-req steps to ensure you do not have to repeat steps

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Amazon EKS Lifecycle Management Architecture



Tanzu Mission Control uses Amazon EKS APIs to create and manage Amazon EKS clusters

AWS Lambda functions are used to periodically monitor and report cluster status

- AWS Lambda functions are managed by Tanzu Mission Control

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Thank you!

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Learn more at booth 1604!



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