

VMware Tanzu for Kubernetes Operations Delivers for Application Modernization

This infographic explores the benefits that customers can realize when deploying VMware Tanzu for Kubernetes Operations. Customers that ESG spoke with highlighted that Tanzu for Kubernetes Operations helped their organizations to simplify, secure, and optimize the deployment, management, and operations of a Kubernetes platform for modernized applications.

With Increased Use of Microservices Comes a Need for More Effective Management

Organizations are turning to microservices to streamline application development, increase scalability, improve data security, and more. Kubernetes, the standard run-time environment for microservices and containerized applications, can run on-premises, in public clouds, and at the edge. This makes it quite versatile for the increasing number of organizations that are adopting a hybrid and distributed environment strategy in order to maximize the value of their data.



73%

of organizations are currently developing cloud-native applications **based on microservices architectures.**

But they are still reporting challenges around using microservices architectures.

THE TOP FIVE REPORTED CHALLENGES INCLUDE:



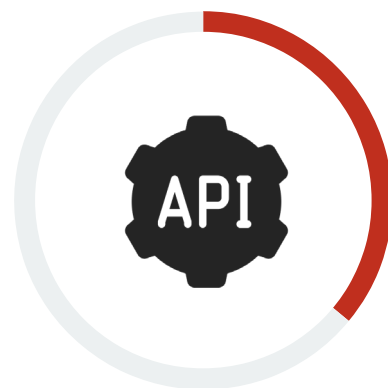
40%

Providing secure configurations



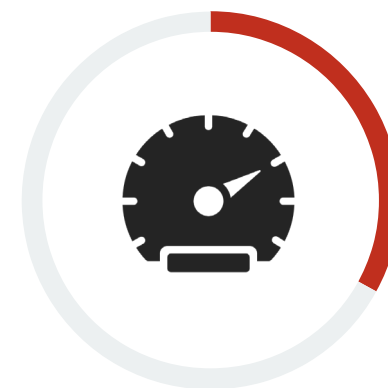
36%

Applying security policy consistently



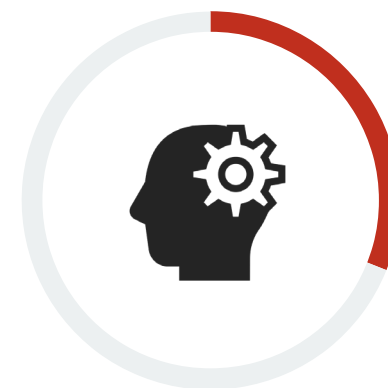
36%

Integration with the rest of our infrastructure



33%

Performance monitoring



31%

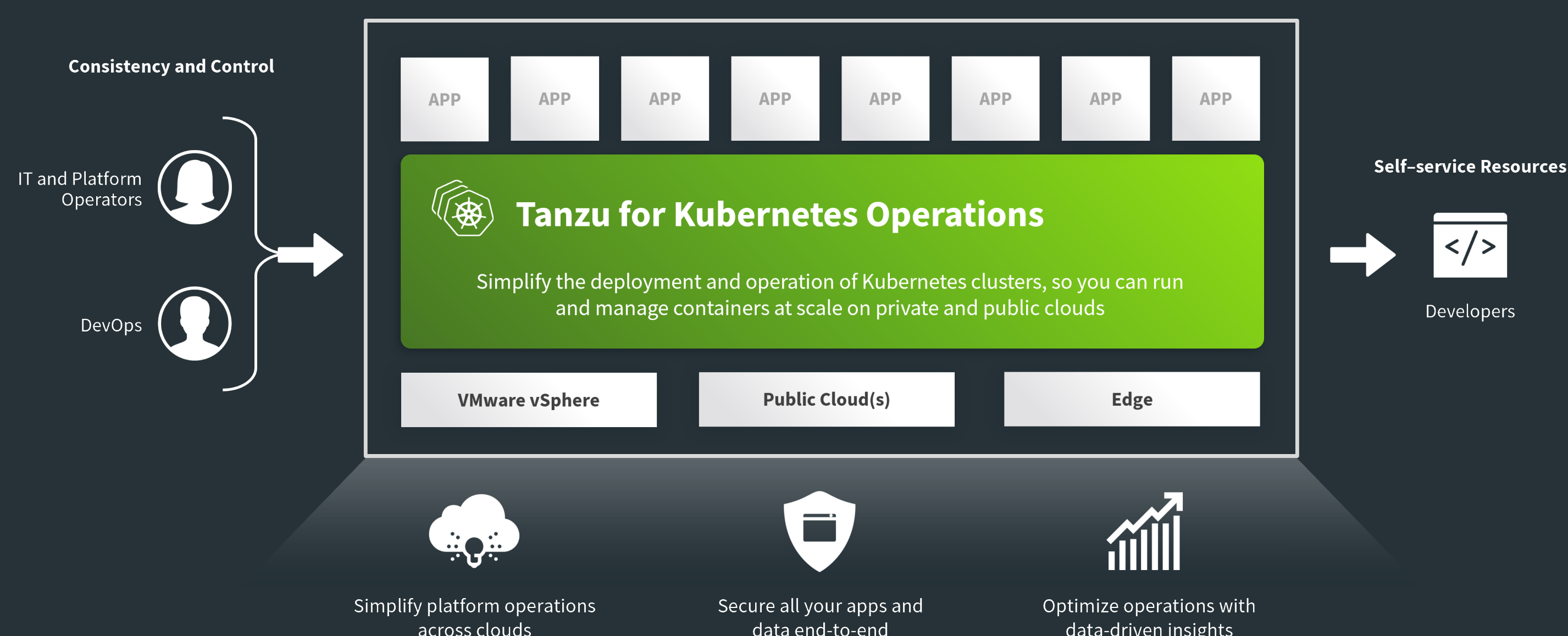
Lack of skill set to deploy/manage



Tanzu is really helpful with Kubernetes cluster operations **because it handles 90-99% of our operations.**

VMware Tanzu for Kubernetes Operations

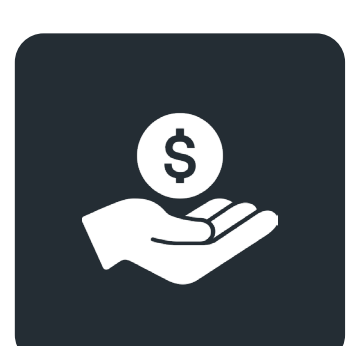
VMware Tanzu for Kubernetes Operations is a Kubernetes platform that includes an open source-aligned runtime environment with a centralized management console and a collection of tools and services that provides a simplified, consistent approach to container deployment, scaling, and management.



The combined synergy of the full suite of Tanzu for Kubernetes Operations products and services helps **simplify, secure, and optimize** the operation of cloud-native application infrastructure in multi-cloud environments.”

ESG Validation of VMware Tanzu for Kubernetes Operations

ESG began exploring the benefits of Tanzu for Kubernetes Operations by examining the value of each of the key services and products that are included in Tanzu for Kubernetes Operations.

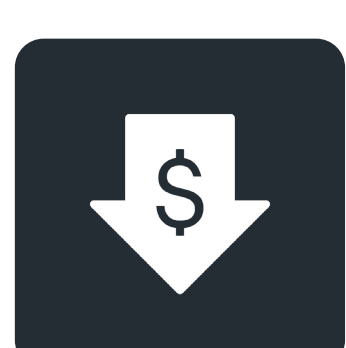


OPERATIONAL SAVINGS

Kubernetes Runtime is powered by VMware Tanzu Kubernetes Grid, which provisions, operates, and manages Kubernetes clusters. ESG found that it provides significant operational savings during Day 0/1 Kubernetes platform deployment and the Day 2 management and operation of containerized applications, **as well as 3-5x faster time to value.**

REDUCED COMPLEXITY

Multi-cluster control plane is powered by VMware Tanzu Mission Control, a multi-cluster control plane for operators to consistently operate and secure Kubernetes infrastructure and modern apps across multiple teams and clouds. Platform operators that ESG interviewed reported that **Tanzu Mission Control reduced complexity and is an adaptable and extensible management hub.**

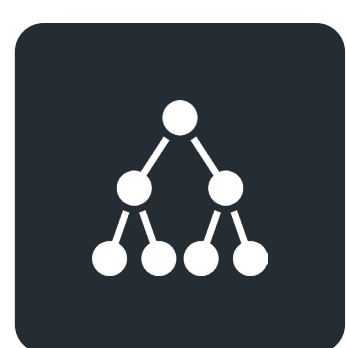
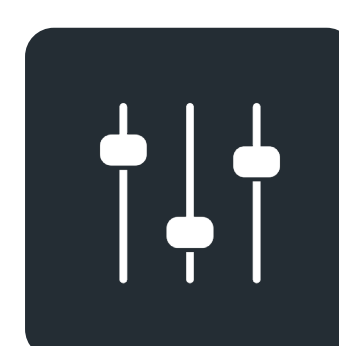


LOWER OVERALL COSTS

Full stack observability, powered by VMware Tanzu Observability, provides smart alerting, and data-driven insights. ESG verified that **customers experienced 70-80% lower overall administration costs** through better resource utilization and a reduction of duplicated and unused resources.

STREAMLINE CONFIGURATIONS

End-to-end connectivity and security, powered by VMware Tanzu Service Mesh, provides advanced, end-to-end connectivity, security, and insights for modern applications. ESG validated that for customers, Tanzu Service Mesh helps to streamline configurations. **The result was a dramatically reduced application roundtrip response time from 500ms down to 211ms.**



LOAD BALANCING AND HIGH AVAILABILITY

Integrated Load Balancing and Ingress is powered by VMware NSX Advanced Load Balancer, which transparently distributes networking traffic requests among multiple clusters across multiple sites for load balancing and high availability. **One customer told ESG that NSX Advanced Load Balancer is great for creating specific configurations and that it is easy and straightforward to use.**

CONSULTING SERVICES

Planning, Training, and Consulting Services are powered by VMware Tanzu Labs, which provides consulting services, partnering with organizations to develop cloud-native applications, build platforms that meet the needs of both developers and operators, and provide secure and frictionless developer experiences. **Customers shared with ESG their positive experiences around working with the skilled and effective Tanzu team,** who could teach them how to use the different tools, processes, and technologies.



SIMPLIFY, SECURE, AND OPTIMIZE

Customers confirmed that the products and services in **VMware Tanzu for Kubernetes Operations help to simplify, secure, and optimize the operation of cloud-native application infrastructure in multi-cloud environments.**

The Bigger Truth

The use of microservices and Kubernetes for application modernization is proliferating, as environments are becoming increasingly hybrid and distributed. IT operations teams are looking to simplify and accelerate Kubernetes adoption, and developers want to find an alternative to managing infrastructure so they can spend more time developing applications that meet business objectives. If your organization is looking to simplify, secure, and optimize the deployment, management, and operations of your Kubernetes platform for application modernization, then ESG recommends that you consider the operational savings and business benefits that can be achieved with VMware Tanzu for Kubernetes Operations.

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