

# Exploring the Economic Benefits of VMware Tanzu Service Mesh

This infographic explores the benefits that customers can experience with VMware Tanzu Service Mesh, part of the Tanzu for Kubernetes Operations bundle. Through customer interviews and the collection of stakeholder feedback, ESG validated that Tanzu Service Mesh can reduce application response time and complexity, achieve micro-segmentation at scale, and consistently enable transport layer security for applications.

## With Distributed Environments Comes Security Challenges

The reality is that data doesn't just stay in one place. Modern applications make it much easier to move information between environments. It's constantly moving from cloud to cloud, back on-premises, and out to edge locations.



# 36%

of organizations reported that **ensuring security across multiple cloud environments is a top challenge they are facing** as a result of using multiple cloud service providers (CSPs).

“Organizations are looking for a solution that can ensure security and data protection across environments.”

- Nathan McAfee, IT Validation Analyst

## Tanzu Service Mesh

Tanzu Service Mesh provides advanced, end-to-end connectivity, security, and insights for modern applications across application end-users, microservices, APIs, and data. It enables compliance with service level objectives (SLOs), data protection, and privacy regulations.



### CASE STUDY

One VMware customer, an American television and satellite provider, uses Tanzu Service Mesh to help optimize their configurations based on Tanzu Service Mesh's telemetry data. **The result was a dramatically reduced application roundtrip response time from 500ms down to 211ms.**

“Tanzu Service Mesh allows us to streamline configurations. The result is much faster application performance and a higher level of consumer satisfaction (internal and external consumers).”

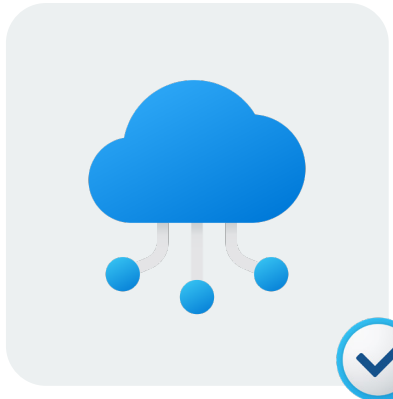
- Tanzu Service Mesh customer



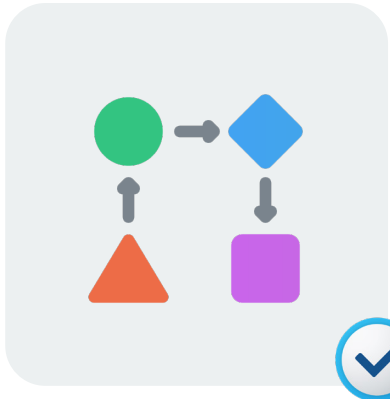
### CASE STUDY

ESG interviewed a global computer retailer and found that implementing NSX and Tanzu Service Mesh helped to **reduce the complexity of managing the networking fabrics, helped them achieve micro-segmentation at scale, and helped enable transport layer security** for all apps consistently.

For Kubernetes operators, Tanzu Service Mesh:



Facilitates the development and management of distributed applications across multiple clusters and clouds.



Enables zero trust application security with automated DevSecOps workflows.



Enhances visibility across app end-users, microservices, APIs, and data.

## The Bigger Truth

Tanzu Service Mesh is a multi-cluster, multi-cloud application connectivity solution with global namespaces that enable application resiliency and security regardless of where the applications are deployed. ESG validated that Service Mesh users can experience dramatically reduced application response time and overall complexity.

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