

Kubernetes: The Business Enabler

Modernize your applications and optimize
IT infrastructure

[➤ Get Started](#)



vmware®

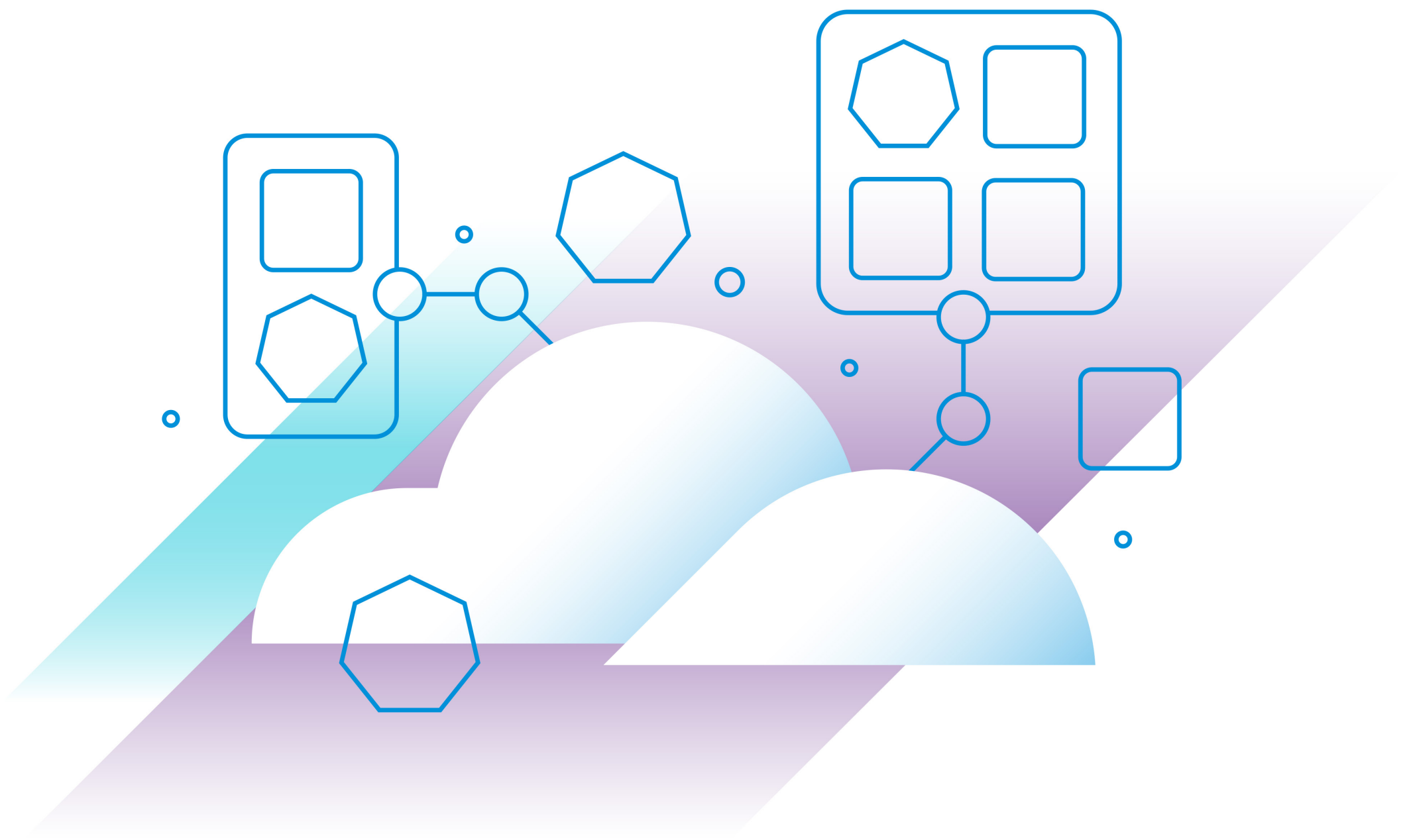
- Introduction >
- Big benefits for all >
- Kubernetes challenges >
- No pain, no gain >
- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >
- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >
- Get started today >

Introduction

Overseeing digital transformation, and securing and simplifying IT environments while evaluating the best ways to stay competitive keep C-level executives on their toes.

Organizations build modern applications to remain competitive and deliver the best customer experiences and outcomes.

Kubernetes, a popular open source platform for deploying and managing containerized applications, is increasingly used by organizations to deliver digital services and software quickly and effectively. Kubernetes makes it possible to run complex, large-scale applications across multi-cloud environments.



- Introduction >
- Big benefits for all >
- Kubernetes challenges >
- No pain, no gain >
- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >
- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >
- Get started today >

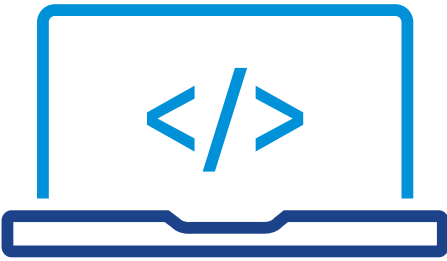
Big benefits for all

Kubernetes adds value to the entire organization



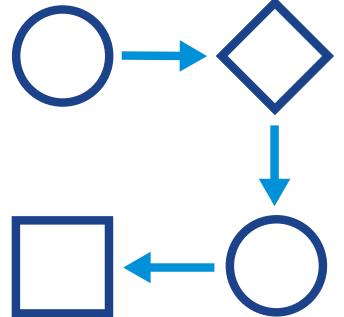
CIOs

- Enable your organization to bring new products to market faster
- Optimize IT costs by cutting infrastructure costs
- Enable the business to scale to meet changing needs



Developers

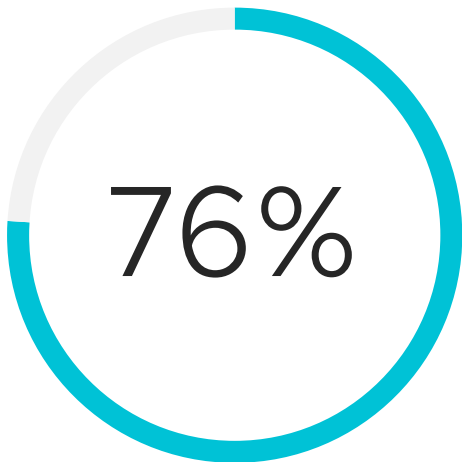
- More productive and happier development teams
- Fewer impediments to development and deployment
- Faster time to market



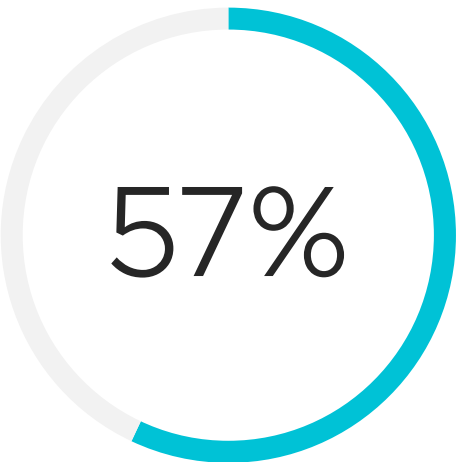
Operators

- Easier multi-cloud operations
- More services delivered with less management overhead
- Reduction of manual and task-oriented work

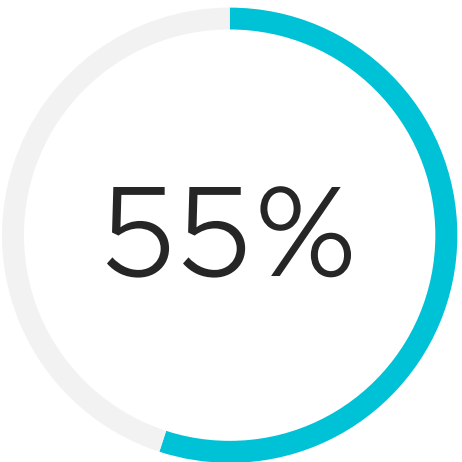
Kubernetes challenges¹



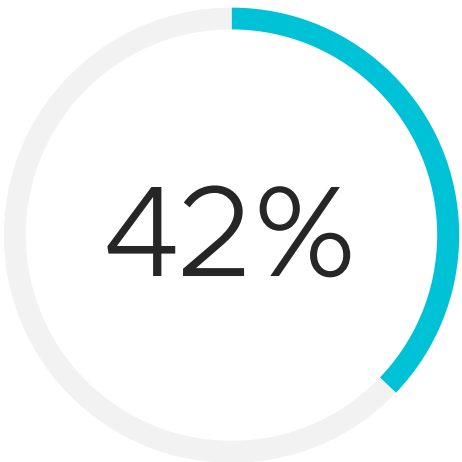
With **76 percent** of organizations using multiple clouds, additional challenges are likely to occur.



Inadequate internal experience and expertise remain the biggest challenge for **57 percent** of organizations when managing Kubernetes.



55 percent of respondents cited misconfigurations/exposures as the top security concern.



42 percent of organizations find it difficult to manage cluster lifecycles and upgrades.

1. [VMware. "The State of Kubernetes." 2023.](#)

- Introduction >
- Big benefits for all >
- Kubernetes challenges >

- No pain, no gain >
- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >
- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >
- Get started today >

No pain, no gain

Kubernetes orchestrates and manages clusters of containerized applications. Containers encapsulate applications and make them portable so you can move them more easily between different clouds and internal environments. Kubernetes brings advantages to your IT and development efforts but introduces operations challenges:

- Cluster lifecycle management requires a lot of effort.
- Cluster observability becomes more important with modern applications.
- Securing Kubernetes clusters can be challenging.
- Delivering multi-cloud consistency for developers can be difficult with Kubernetes.
- Finding Kubernetes skills is hard.



- Introduction >
- Big benefits for all >
- Kubernetes challenges >
- No pain, no gain >

- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >
- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >
- Get started today >

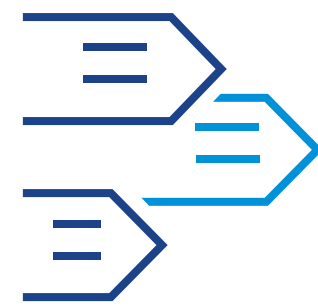
Fast-track your digital transformation projects

Pressure is mounting to bring new products and services to market faster while increasing revenue and keeping overall IT costs in check. Business success and better outcomes require launching modern applications at record speeds. The rapid proliferation of Kubernetes clusters across disparate clouds exacerbates operational challenges. In addition, developing and updating applications at the pace you need exposes your organization to security risks.

VMware Tanzu for Kubernetes Operations

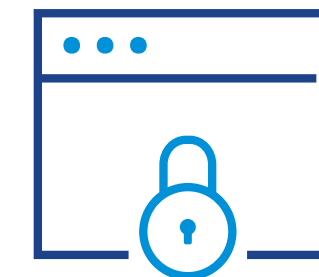
VMware Tanzu® for Kubernetes Operations helps organizations address Kubernetes challenges to drive overall business outcomes while scaling operations and enhancing security, resiliency and efficiency.

How to deliver more business value and innovate faster



Simplify

Simplify container provisioning, management, monitoring and observability for greater agility.



Secure

Secure connectivity for all your applications, data and infrastructure, end-to-end, to remain compliant.




Optimize

Optimize multi-cloud Kubernetes operations to increase ROI.

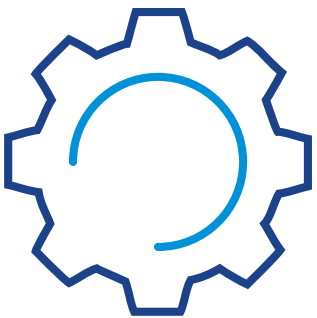

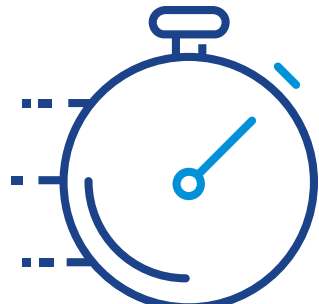
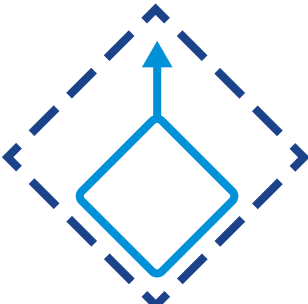
Expedite delivery and manage Kubernetes at scale

Grow your business on any and many clouds with VMware Tanzu



VMware Tanzu® for
Kubernetes Operations

A better experience for building and running Kubernetes

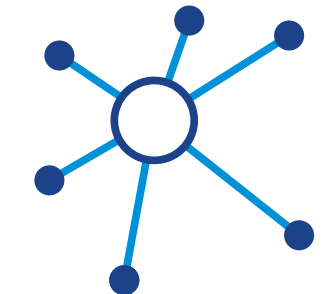
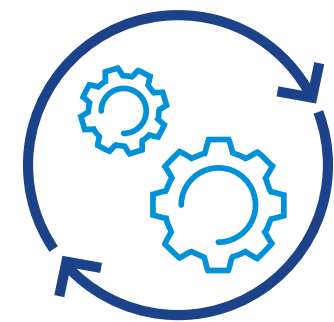
			
Reduce administration by 70–80 percent with robust multi- cluster, multi-cloud Kubernetes management.	Mitigate risk by intelligently detecting and securing service-to- service connectivity across distributed Kubernetes.	Decrease time to value 3–5x through platform lifecycle automation.	Improve scalability and resiliency of applications.

For more insights about what security, infrastructure and operations teams need to know, read our recent white paper, [Top 5 Kubernetes Operations Challenges and How to Mitigate](#).

- Introduction >
- Big benefits for all >
- Kubernetes challenges >
- No pain, no gain >
- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >**
- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >
- Get started today >

Keep your business rolling

Whether integrating current applications into the cloud or building new ones, you can do more with VMware Tanzu. Your platform operations and DevOps teams can quickly troubleshoot applications, Kubernetes and infrastructure, allowing them to focus on developing better applications with faster updates.



Administration

- Control your environment and configure security and compliance guardrails for your developers.
- Automate software delivery across applications and teams for faster time to market.

Risk

- Get end-to-end, Zero Trust security with consistent security policies and encryption.
- Gain real-time observability across all layers of the platform to reduce security risk.

Time to value

- Deliver software to production quickly and securely.
- Improve consistency of package management to achieve greater operational efficiency.

Scalability and resiliency

- Support microservice autoscaling and enable multi-cluster and multi-cloud bursting across clouds.
- Provide high availability and automatic failover to meet service-level objectives.

- Introduction >
- Big benefits for all >
- Kubernetes challenges >
- No pain, no gain >
- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >

- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >
- Get started today >

The digital foundation for your business

You can **simplify, secure and optimize** your Kubernetes environment with VMware Tanzu to build what's next.

VMware Tanzu helps you overcome the operational challenges of managing your Kubernetes environment and frees your enterprise teams to focus on digital innovation by automating platform operations, securing your applications, and improving developer productivity.

Introduction >

Big benefits for all >

Kubernetes challenges >

No pain, no gain >

Fast-track your digital transformation projects >

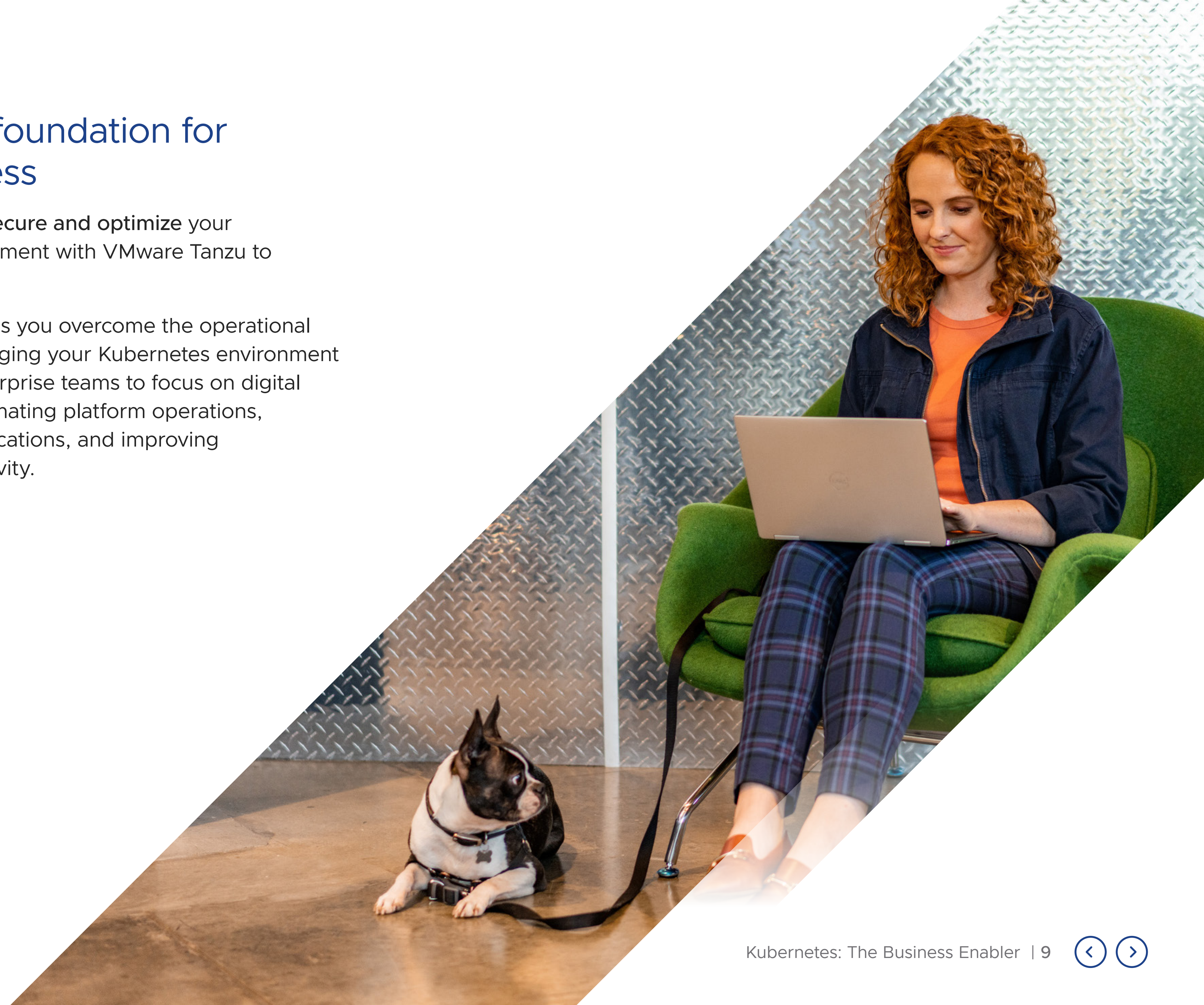
Expedite delivery and manage Kubernetes at scale >

Keep your business rolling >

The digital foundation for your business >

Teamwork makes Kubernetes work >

Get started today >



- Introduction >
- Big benefits for all >
- Kubernetes challenges >
- No pain, no gain >
- Fast-track your digital transformation projects >
- Expedite delivery and manage Kubernetes at scale >
- Keep your business rolling >
- The digital foundation for your business >
- Teamwork makes Kubernetes work >**
- Get started today >

Teamwork makes Kubernetes work

Organizations might need assistance to bridge existing skills gaps to manage their Kubernetes environment.

VMware Tanzu Activation Services™ decrease time to value and provide support so you can deliver the desired outcomes in the time frame you need through the VMware Tanzu Labs™ team, which comprises hundreds of the world’s top Kubernetes consultants, product managers and engineers. They can assist you with installing, configuring and integrating your Tanzu for Kubernetes Operations platform to accelerate onboarding.

In addition, VMware will migrate a minimum of one application to your new Kubernetes platform, ensuring our knowledge and skills transfer to your team along the way.



Get Started Today

Learn how to mitigate
the top five Kubernetes
operations challenges.

[READ WHITE PAPER](#)

Join us online:

