VMware Tanzu™

Modernize your applications and infrastructure to deliver better software to production, continuously

AT A GLANCE

VMware Tanzu enables you to build, run and manage modern apps on any cloud—and continuously deliver value to your customers. With VMware Tanzu, you can simplify multi-cloud operations and free developers to move faster with easy access to the right resources. VMware Tanzu enables development and operations' teams to work together in new ways that deliver transformative business results.

KEY BENEFITS

- **Ship great software faster**—Increase velocity with a modern software supply chain of frameworks, services and validated open source tech.
- **Simplify multi-cloud operations**—Get your infrastructure ready to run modern apps, and centrally manage your clouds, clusters and apps.
- **Transform Dev and Ops together**—Unite application developers and operations teams around the shared goal of fast release cycles.

OUTCOMES

- **Business acceleration** from productive developers, app velocity, innovative products, and happier customers.
- **High-performing, agile operations** from a secure, resilient, scalable, accessible, cost-effective multi-cloud infrastructure by design.
- **Empowered teams** from building a modern culture focused on delivering customer value continuously. Retain and attract great talent too.

Accelerate Your Business with Full-stack Modernization

Most large enterprises today have millions of lines of existing code that are very difficult to maintain and change—but these applications are essential to the business. How can you extend the value of your existing software investment to benefit from the advantages of modern software delivery and operation? How can you simplify the way you run and manage modernized workloads alongside existing software? How can you get to production more often with new customer experiences?

Drawing on years of helping the world's largest companies build the foundation for digital business, VMware is here for what might be your most important work: modernizing your applications and infrastructure. VMware Tanzu offers full-stack modernization, enabling you to transform your teams and your applications, while simplifying operations of your software across multi-cloud infrastructure.

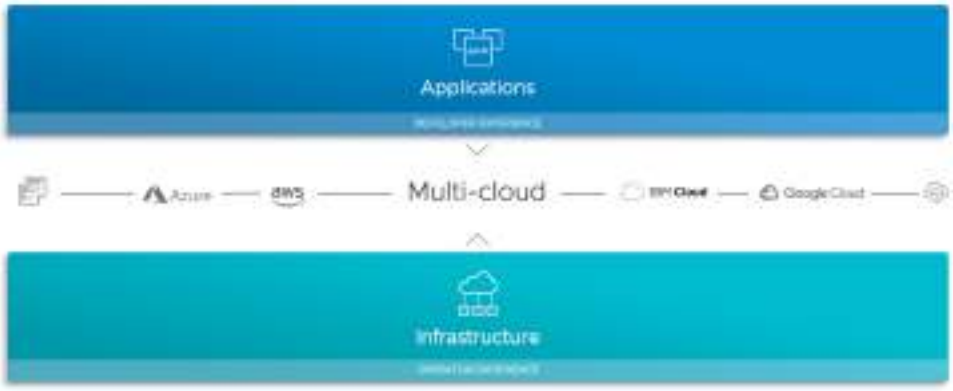


FIGURE 1: BUSINESS ACCELERATION THROUGH APPLICATION AND INFRASTRUCTURE MODERNIZATION

Modernize at Your Own Pace

With VMware Tanzu, you can transform your applications and infrastructure in a way that's right for you and at our own pace. If your first priority is to build better software faster, we can help you modernize the applications that matter most and automate the path to production. We can help you on the infrastructure side by establishing a unified operating model for virtual machines and containers within your private cloud. And we make it easy to extend that consistent operating model across clouds, taking full advantage of Kubernetes. Then we enable you to operate your modern infrastructure and applications centrally, securely, and at scale.

The following use cases provide more specifics about how you can modernize applications and infrastructure with VMware Tanzu.

VMWARE TANZU LABS SERVICES

Technology is only part of any modernization initiative. You may need support and expertise on your journey to deliver the outcomes you want in the timeframe you need.

VMware Tanzu™ Labs™ can empower your teams to respond faster to your customers' needs and deliver results that drive your business. Tanzu Labs can help you:

- Build and modernize applications. Quickly assess business-critical applications so you can start migrating existing software immediately.
- Develop a Kubernetes-based app platform and run it at scale, making life better for developers along the way.
- Enable the adoption of modern practices and culture changes that are necessary for meaningful transformation and sustained success.



Modernize existing applications

Your existing applications can be difficult to update, integrate, and scale. This can keep you from creating new, innovative digital experiences for your customers. It also adds risk over time by harboring potential security vulnerabilities. VMware Tanzu with VMware Tanzu Labs can help you create and execute your app modernization strategy.

You may decide to containerize existing workloads to run in the cloud for quick gains in security and manageability. Or you can rearchitect and rewrite existing, business critical software to be continuously delivered and resilient. At the same time, you can modernize your infrastructure to simplify how you operate your clouds, clusters and apps—with security, stability, and scale in mind.

Improve the developer experience

If you're not enabling your developers to be productive, then you're slowing down your business. Developers should be able to focus on getting their code working in production, not spending time on underlying infrastructure.

With VMware Tanzu, developers are set up with a complete software supply chain that can get them to production fast and continuously. They can deliver software with a secure, automated platform. They can access a self-service catalog of open-source building blocks such as application components, databases, and runtimes. They can apply modern data practices for real-time applications. Plus, they can maintain visibility of applications in production to troubleshoot and improve their apps.

Speed Kubernetes enterprise adoption

While Kubernetes can streamline container delivery, it can be complex to deploy and operate itself. In fact, a top barrier to Kubernetes adoption in the enterprise is the lack of experience and expertise.

VMware Tanzu addresses the Day 1 and Day 2 Kubernetes operations burden with a complete, easy-to-upgrade Kubernetes runtime with pre-integrated and validated components. This enables you to run the same K8s across data center, public cloud and edge for a consistent, secure experience for all development teams. It also can be used with your existing data center tools and workflows to give developers secure, self-serve access to conformant Kubernetes clusters in your VMware private cloud.

Simplify cloud migration

Many organizations have mandates to move workloads to public cloud in hopes of improving operation and reducing costs. Migration to cloud is not only about your infrastructure. It's much more about having applications that can run in the cloud. Embracing the cloud requires more than a lift-and-shift approach.

VMware Tanzu and VMware Tanzu Labs help you modernize your existing portfolio and show you the best way to build new, cloud native apps. Migrate your apps to the cloud when you're ready and get the portability you need to move to different clouds as operations require.

Centrally manage clouds, clusters and apps

As your Kubernetes footprint grows to multiple data centers and clouds, how do you apply consistent policy and security, as well as effectively run your apps at a global scale?

VMware Tanzu provides centralized lifecycle and policy management for all of your Kubernetes clusters across multiple teams and clouds. If you're deploying microservices, we can help you scale with complete service mesh management. You also get an observability platform that enables every team to understand how applications are operating—and resolve issues in real time before they impact the business.

VMware Tanzu Basic

Simplify operation of Kubernetes on-premises as part of vSphere 7

Tanzu Basic offers an open source-aligned Kubernetes distribution, packaged for the enterprise and delivered as part of your existing infrastructure to support application modernization. It puts cloud native constructs at the virtualization admin's fingertips, provisioning clusters directly from vCenter. Run VMs and containers side-by-side.

VMware Tanzu Standard

Simplify operation of Kubernetes for multi-cloud deployments

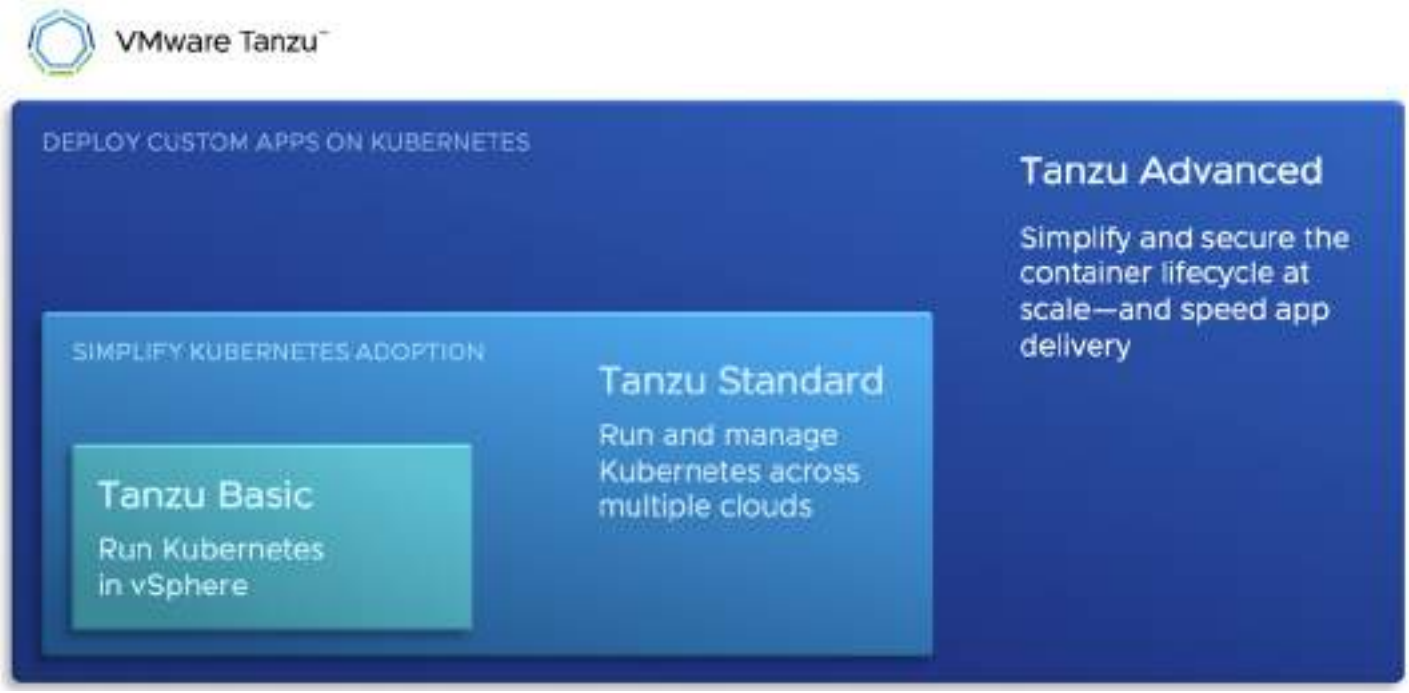
Tanzu Standard delivers an open source-aligned Kubernetes distribution with consistent operations and management to support your infrastructure and app modernization. Access centralized management and governance for clusters and teams across on-premises, public clouds and edge. Provide developers ready access to Kubernetes workspaces where they are free to build their modern apps.

VMware Tanzu Advanced

Simplify and secure the container lifecycle to speed the delivery of modern apps at scale

Tanzu Advanced offers the modular capabilities that enable you to embrace DevSecOps and stand up a platform for modern apps that works for *your* organization. Automatically build a stream of compliant containers. Secure your software supply chain end to end. Operationalize containers and clusters across clouds.

Whether your organization is starting out or already has many pieces of the container lifecycle in place, Tanzu Advanced capabilities can address your most pressing challenges today and support your overall modernization journey going forward.



VMware Tanzu editions build on each other to simplify Kubernetes adoption and enable you to run modern apps at scale.

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