VMware Tanzu™

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

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. The VMware Tanzu portfolio offers full-stack modernization, enabling you to transform your teams and your applications, while simplifying operations of your software across multi-cloud infrastructure.
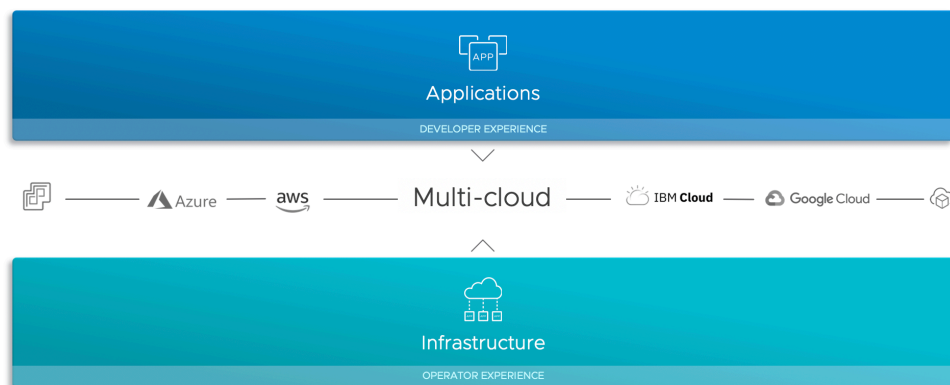

FIGURE 1: BUSINESS ACCELERATION THROUGH APPLICATION AND INFRASTRUCTURE MODERNIZATION

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 offers two editions today that can simplify your Kubernetes adoption and lay the foundation for modern applications. Choose the one that best suits your needs.

Tanzu Basic Edition: Get Kubernetes as part of vSphere with Tanzu Basic—and run VMs and containers side-by-side. Tanzu Basic embeds Kubernetes in the vSphere control plane for the best user experience. Provision clusters directly from vCenter and run containerized workloads with ease.

Tanzu Standard Edition: Manage VMs and containers across multi-cloud infrastructure with Tanzu Standard. Tanzu Standard makes it simple to deploy the same, consistent Kubernetes distribution across on-premises, public clouds and edge. Centrally manage policy and security for every conformant Kubernetes cluster in your estate. Provide developers ready access to Kubernetes workspaces where they are free to build and observe their modern apps.

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 Pivotal 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 Pivotal 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.

BUILD

Simple, accessible programming model
Accelerate cloud-native development with the world's most popular Java framework, Spring.

Automated developer experience
Boost developer velocity and reliably run all apps at cloud scale with an app platform that automates the release and operation of software.

Verified open source containers
Maintain a production-ready, curated catalog of open source container images for developers to grab and go.

Container build automation
Automate container creation, management, and governance at enterprise scale.

Modern data layer
Break down data monoliths with on-demand caching, messaging, and database software for modern apps.

RUN

Kubernetes that runs everywhere
Deploy an enterprise-ready Kubernetes runtime to power the delivery of modern apps across on-premises, public clouds and edge. Get Kubernetes as part of vSphere with Tanzu Basic edition.

MANAGE

Unified, global multicluster operation
Centrally manage and secure Kubernetes infrastructure and modern apps across teams and clouds.

Microservices networking and control
Connect, protect and monitor your microservices end-to-end across any runtime and any cloud.

Full-stack observability
Monitor and analyze application and infrastructure health at massive scale across the multi-cloud enterprise—one data source for all teams.

SERVICES

Master a modern way of building and operating software with **VMware Pivotal Labs**. Jumpstart application development and modernization initiatives in a results-driven, iterative way. Pivotal Labs enables you to create new cloud native apps, modernize existing apps, operate your platform as a product, and transform operations with Kubernetes. Let us help you create a culture shift that lasts:

- Learn how to use agile development to deliver the products your customers desire.
- Quickly assess business-critical applications so you can start migrating legacy software immediately.
- Make the applications that matter more reliable, accessible and scalable.
- Run your platform at scale and make life better for developers.

VMware Tanzu

BUILD
Automated path to production

61%
faster release times*

RUN
Unified Kubernetes platform

ONE
platform to run heritage and cloud-native apps on any cloud

MANAGE
Centralized management of clusters, apps and teams

1000s
of clusters operated as easily as 10s of clusters

SERVICES
Expertise in cloud native practices for Dev and Ops

Modernize in **Weeks** not months

*Customer average

VMware Pivotal Labs

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