

# VMware Tanzu Standard



## VMware Tanzu

### THREE REASONS TO TRUST VMWARE TANZU EDITIONS TO CATALYZE APPLICATION MODERNIZATION:

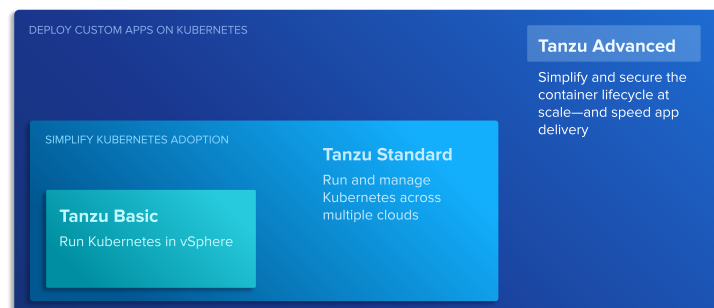
- VMware is a top contributor to the open source Kubernetes project and leads multiple principal open source efforts.
- Tanzu Standard customers can deploy Kubernetes as part of an integrated VMware Cloud Foundation stack, to immediately bring new capabilities to existing workloads.
- Tanzu Standard customers can easily step-up to Tanzu Advanced for an expanded set of capabilities to build with containers.

## Your Challenge

Your organization has embraced containers and your current or future plans require support for container-based workloads across multiple clouds. That may start with running containerized off-the-shelf workloads in an on-premises environment, but there's an inevitable need to manage more dynamic workloads across public clouds and edge. As your application footprint grows, you'll need a way to streamline management of the clusters on which your applications reside with centralized observability and governance.

## Introducing Tanzu Editions

VMware Tanzu™ editions package capabilities of the Tanzu portfolio into clearly defined solutions targeted at the most common enterprise challenges. Each Tanzu edition is a superset of the one below it along a spectrum, giving you a clear path to add capabilities over time as needed. VMware Tanzu Standard builds on Tanzu Basic to enable you to run and manage Kubernetes across multiple clouds at scale.



## Introducing Tanzu Standard

VMware Tanzu Standard is for organizations that want to operate a Kubernetes-based container solution across multiple clouds. Whereas Tanzu Basic is intrinsically tied to vSphere, Tanzu Standard provides you the flexibility to extend a consistent, open source-aligned Kubernetes distribution across on-premises, public cloud(s) and edge. The alternative is to operate multiple Kubernetes distributions from legacy vendors and/or hyperscalers, each with different access controls, policy configurations and more—making it nearly impossible to operate with consistency across clouds. Tanzu Standard allows you to operate one distribution anywhere and gain consistent management over all your Kubernetes clusters with global observability, common configuration control and centralized data protection across any environment.

You can license and deploy Tanzu Standard as an add-on for vSphere 6.7u3, vSphere 7 or on public clouds; or you can license Tanzu Standard with VMware Cloud Foundation to deploy Kubernetes as part of a larger, integrated stack. Tanzu Standard's global control plane is available as SaaS.

### ENSURE IMPACT FOR YOUR KUBERNETES INVESTMENT:

VMware Pivotal Labs is our team of expert architects and engineers who have completed more than 2,000 customer projects.

Kubernetes extensibility introduces a lot of choices. If you need guidance on design and integration, our team has a well-defined Platform Deployment engagement to address your needs and ensure optimal set-up for Kubernetes-based container management.

## Capabilities

The most notable capabilities of Tanzu Standard are:

- **Open source-aligned Kubernetes.** Tanzu Standard is built on upstream Kubernetes, packaged with an installer to simplify enterprise adoption. We include Cluster API for cluster lifecycle management, an open source project embraced by hyperscalers and industry leaders. This commitment to open source alignment ensures you can run the same distribution across any cloud.
- **Centralized governance.** Tanzu Standard enables centralized governance for your entire Kubernetes footprint across multiple environments. You can provision net-new clusters in select environments and attach and manage any existing, conformant Kubernetes clusters for global observability, consistent access and security policy management, as well as data protection. Tanzu Standard ensures the platform operator has full accountability and capability to operate your complete Kubernetes estate.
- **Observability fundamentals.** Tanzu Standard includes leading open source projects, Prometheus and Grafana, with out-of-the-box dashboards that emphasize platform monitoring and full VMware support.

A complete chart of components is listed below:

COMPONENTS	TANZU STANDARD
vSphere 7-specific capabilities	vSphere Pod service*, Storage service, Network service, Registry service*, VM service
Kubernetes cluster lifecycle management	Cluster API
Image registry	Harbor
Container networking	Antrea/Calico
Load balancing	NSX Advanced Load Balancer (Avi Essentials)
Ingress controller	Contour
Observability	<ul style="list-style-type: none"> <li>• Fluent Bit</li> <li>• Prometheus and Grafana for platform monitoring</li> </ul>
Operating System	Photon OS, Ubuntu**, and Bring-your-own node image
SaaS Global Management	<ul style="list-style-type: none"> <li>• Lifecycle management of provisioned clusters</li> <li>• Attach and manage any conformant Kubernetes cluster</li> <li>• Cluster and workload health observability</li> <li>• Centralized access and security policy management</li> <li>• Backup and restore clusters and namespaces (with built-in Velero)</li> <li>• Backup scheduling</li> <li>• Cluster conformance inspections</li> <li>• System events and audit logs</li> <li>• Integration with Tanzu Observability and/or Tanzu Service Mesh</li> </ul>

Requires NSX\*

Requires deploy your own management cluster \*\*

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<https://tanzu.vmware.com/>

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## Outcomes

Enterprises that use Tanzu Standard will put Kubernetes at the fingertips of their infrastructure team with the flexibility to operate across clouds, clusters and teams. They benefit from:

- **Consistent deployment and operations across clouds.** Tanzu Standard avoids the complexity of maintaining different distributions across different clouds. It includes a single Kubernetes distribution you can deploy and operate across on-premises, public cloud(s) and edge.
- **Operator control and developer freedom.** Centrally manage your entire Kubernetes footprint with consistent governance over configuration, access, security and data protection, while providing development teams with the freedom to access and build on resources within those parameters.
- **Access to the innovation of the Kubernetes community** with a solution that integrates leading open source projects, wraps them in enterprise-grade installers and UI, and is fully supported by VMware experts.