

Platform Deployment for VMware Tanzu Kubernetes Grid

“By 2025, more than 85% of global organizations will be running containerized applications in production, which is a significant increase from fewer than 35% in 2019.”

GARTNER, BEST PRACTICES FOR RUNNING CONTAINERS AND KUBERNETES IN PRODUCTION, ARUN CHANDRASEKARAN, 4 AUGUST 2020

FREE YOUR APPS. SIMPLIFY YOUR OPS.

- Simplify Kubernetes operations
- Enable developer self-service
- Access the best of open source
- Realize the benefits of multi-cloud
- Operate all clusters consistently
- Improve security and governance

VMware® helps you boost your Kubernetes journey by deploying VMware Tanzu Kubernetes Grid (TKG) into your existing environment quickly and sharing a wealth of educational materials created by leading experts. Your team will be equipped to run and deploy applications on premises and in the cloud.

Deploy Kubernetes for your app and infrastructure needs

During a deployment service engagement, our VMware experts will install and configure Tanzu Kubernetes Grid in your environment in 2-4 weeks.

We carefully consider the following when designing and implementing your TKG deployment engagement:

- Your team's knowledge and experience level with Kubernetes
- Amount of enablement needed for your team
- Amount of automation that will be required
- Number of IaaS environments
- Number of integration points
- Cycle Time for Changes

Deploy and operate with consistency to realize more than 90% operational efficiency¹

Resource utilization, infrastructure costs and VM sprawl are constant concerns for infrastructure teams. Kubernetes improves utilization of cloud resources by packing apps together optimally. Plus, Tanzu Kubernetes Grid can optimize your CPU usage with better application scalability, availability and stability. Scale up when you need it for more CPU-intensive apps, and down when you don't. By moving applications to containers, you can also begin to reclaim your overprovisioned infrastructure!

Improve security with better patching

Continuous patching increases security and reduces the pain of patch compatibility issues and roll backs. Kubernetes makes deploying patches easier and faster resulting in a more secure environment. Roll out or roll back fully patched container images. Automatically roll out new patches when containers are rebuilt – often within a matter of days.

Standardized images across all platforms

Containerized apps are portable to different environments which makes moving to the cloud easier. Run constantly and consistently across every environment - on prem, in the cloud, or at the edge. Realize the benefits of hybrid and multi-cloud!

TAKE ADVANTAGE OF THE FULL INNOVATION AND ENERGY OF THE KUBERNETES COMMUNITY

KUBE ACADEMY

<https://kube.academy/>

VMWARE TANZU DEVELOPER CENTER

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

VMWARE LEARNING

<https://www.vmware.com/learning.html>

FIND OUT HOW TO REALIZE OVER 90% OPERATIONAL EFFICIENCY WITH TANZU STANDARD

<https://tanzu.vmware.com/content/analyst-reports/analyzing-the-economic-benefits-of-operationalizing-kubernetes-with-vmware-tanzu-standard>

Empower your developers with self-service access

At VMware, we want to support you in making that shift to hybrid and multi-cloud infrastructure. With TKG installed, you can empower your developers with secure, on-demand, API-driven access to the right infrastructure resources, the right cloud services, and the right application components and move away from ticket-based systems access. Tanzu Kubernetes Grid allows you to run Kubernetes with consistency and make it available to your developers as a utility, just like the electricity grid!

Add global visibility and multi cloud capabilities

You can extend your platform capabilities with Tanzu Mission Control (TMC) which provides global visibility across teams, clusters and workloads. VMware experts can integrate TMC with your TKG deployment. TMC adds multi cloud capabilities like Identity & Access Management, cluster attachment for centralized operations and management, and observability for workload health and inventory.

After deploying TKG, you'll have an enterprise ready Kubernetes runtime that:

- Is fully installed, configured and integrated with your environment
- Provides container registry and data protection
- Gives you centralized policy and lifecycle management
- Will provide a foundation for a Kubernetes-based app development platform

	TKG	TKG + TMC
Engagement Length	2 – 4 Weeks	2 – 4 Weeks
Delivery Method	Remote and/or On-Site	Remote and/or On-Site
Installed, Configured & Integrated	●	●
Reproducible infrastructure in source control	●	●
Accelerated establishment of your platform capability	●	●
Centralized Policy & Lifecycle Management	●	●
Container Registry	Harbor	Harbor
Data Protection	Velero	Velero, UI, CLI, API
Platform Monitoring		Prometheus & Grafana
Attaching Clusters		●
Identity & Access Management		●
Observability Cluster and workload health / metadata / inventory		●

Continue your Kubernetes journey with VMware Tanzu Labs

VMware Tanzu Labs™ can help you evolve your Kubernetes strategy. Tanzu Labs provides services for every step of your journey, from deploying Kubernetes in your environment to helping you implement modern tools and practices for managing a developer-centric platform at scale. We work with you to create the right solution for your business and transfer knowledge from our world-class experts in Kubernetes, reliability engineering and DevSecOps. Learn more about Tanzu Labs consulting services at tanzu.vmware.com/platform-development

