

A Primer on VMware Tanzu

Maintain governance, compliance and security while moving to VMware Tanzu

Why PowerProtect Data Manager

- Built for Kubernetes environments; Single platform for VMs, Apps and Kubernetes
- Centralized management and governance
- Enterprise-grade data protection – maintain governance, compliance and security while moving to VMware Tanzu
- Available in a turnkey integrated appliance form factor
- A more reliable and cost-effective infrastructure
- No silos, no shadow for separate IT projects
- Enterprise features are built in: Policy based engine and built in change copy (replication) for compliance and disaster recovery with Data Domain
- Long Term Retention in the Cloud and Cyber Recovery Vault features for all your workloads, including k8s
- Maintain power when you need it and delegate to end-users when you don't
- Leverage existing skillsets

Power up your Data Protection for Tanzu

VMware offers four Tanzu editions, each of which is a superset of the one before it, meaning if you want to start with the basics and move to enterprise, you can build your container platform like Legos. Tanzu editions, paired with Dell EMC PowerProtect Data Manager, simplifies and automates the tools you'll want to move forward in your cloud native journey.

If you are not familiar with the editions of Tanzu, let's begin with **Tanzu Basic**. Tanzu Basic is the most affordable and accessible edition for enterprises just getting started with their cloud native journey. If containerized off-the-shelf (COTS) workloads on-premises is part of your vSphere footprint, there is no need to invest in a heavyweight, proprietary container platform. Tanzu Basic offers a clean Kubernetes-based container management on vSphere and to support the build, run and manage journey, organizations must also include protection of these workloads to guarantee reliability, efficiency and availability at a low cost to succeed when moving to Tanzu Basic. To protect Tanzu Basic, PowerProtect Data Manager, built for cloud native environments, is the preferred solution for VMs, applications, and Kubernetes and provides the necessary governance, compliance and security for organizations moving to Tanzu.

Tanzu Standard offers the same, consistent Kubernetes distribution to deploy across environments (on-premises, public clouds, and edge) and a global control plane for centralized management, but an advanced option to manage the footprint at scale on public clouds or across clouds. Scalability is a major benefit of Tanzu Standard as well as PowerProtect Data Manager. Working with VMware, Data Manager leverages the native architecture developed for Kubernetes environments and introduces advanced capabilities such as app consistency, performance, faster backups, lifecycle management, guest cluster protection and supervisor cluster support. Tanzu Standard, paired with Data Manager, offers the only enterprise solution that covers access management, backup, and more for individual Kubernetes clusters and groups of clusters across environments. Data Manager also supports multi-cloud environments and improves alignment between DevOps and IT ops, leading to improved teamwork and faster digital transformations.

Tanzu Advanced, which is not available yet, will allow for building custom or container-based applications that need expanded capabilities. For an organization that is trying to build a DevOps practice, for example, the benefit of streamlining how developers use containers and microservices and make security part of software development so that it stretches towards DevSecOps will be incredibly valuable.

Protection Benefits:

- Improved alignment between DevOps and IT ops
- Multi-cloud protection
- Automated and persistent data protection from a single platform for VMs, apps and Kubernetes
- Offers hands-off backups of persistent volumes
- Easier, end-user restoration of persistent volume and namespace data
- Peace of mind that hard work, apps and workloads are protected
- Developers can deploy anywhere, patch containers and re-deploy
- Orchestrates protection policies across distributed applications
- Predictable recovery process prevents data loss
- Discovery of unprotected Kubernetes assets

Finally, **Tanzu Enterprise**, also not available yet, encapsulates the fullest set of Tanzu portfolio capabilities and addresses the central objectives of operators who want more efficiency and control at scale, while giving developers more speed and freedom.

Ensuring a Successful Digital Transformation

A successful digital transformation requires alignment among all stakeholders in the software development process, and agreement among stakeholders will lead to improved digital transformation success. These joint solutions provide the agility and simplification infrastructure managers' need by automating as much as possible and expanding our customers' a cloud first shift to optimize IT administration experiences. Dell and VMware can improve the developers journey as well as the IT Ops journey, giving our customers the choice to confidently plan their modern data protection strategies through constant innovation and agile engineering.

With single vendor support, Dell Technologies and VMware also enable customers to take advantage of existing skills and investments in their modern applications. This enables developers to gain the benefits of Kubernetes not just for their cloud native applications, but for all applications. At the end of the day, it's about offering more choice and flexibility to modernizing IT that best matches your needs while maintaining governance, compliance and peace of mind that your hard work, applications and workloads are always protected.

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	Tanzu Basic	Tanzu Standard	Tanzu Advanced	Tanzu Enterprise
Objective	Run Kubernetes in vSphere	Run and manage Kubernetes across multiple clouds	Embrace DevOps delivery of workloads on Kubernetes	Drive developer velocity with automated app platform
Business Impact	Improved resource utilization	Operational simplicity and efficiency	Software in production	Developer productivity
Availability	Available in Q3FY21	Available in Q3FY21	Available later	Available later
Primary audience	VI Admin System Admin	Infrastructure Lead Cloud Architect	DevOps PlatformOps	VP Applications CIO
Protect	PowerProtect Data Manager			

For more information, www.delltechnologies.com/VMwareProtection