Solving Problems with Kubernetes Solutions

How Dell and VMware help you tackle container challenges

Containerized apps are transforming IT and modernizing app delivery at organizations of every size for faster delivery and more control. In a recent SWZD Research survey of IT decision makers, participants expect these new approaches will lower startup (24%) and ongoing (19%) costs – and bring greater control over IT resources.[1]

Modernization with containers bring its own challenges:

31% of organizations not using containers or Kubernetes say it's because the technology is too complex

23% blame uncertainty about security

Where Does VMware Tanzu Fit?

VMware Tanzu helps you manage containers with a comprehensive, flexible approach that emphasizes usability and security. While Kubernetes provides an industry-standard way to orchestrate containers, it alone may not be enough. With Tanzu's unified control plane, you can:
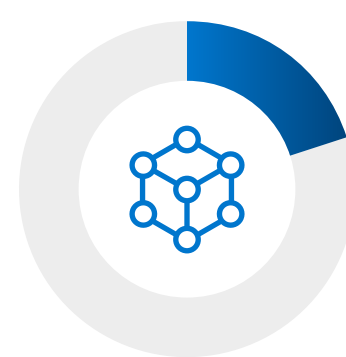
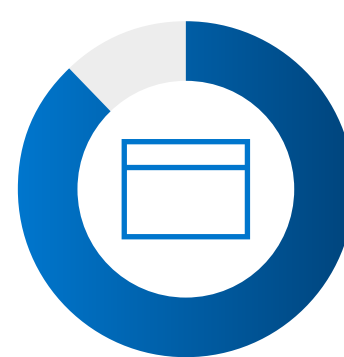Deploy and manage your Kubernetes-based containers – simply

Secure your clusters with centralized policies

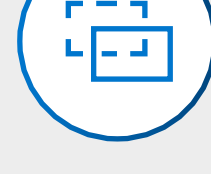Govern your container infrastructure with consistent policies

Just **20%** of organizations are using multi-cluster orchestration

But **88%** are deploying containerized 3rd-party apps and services, or developing their own

The Dell Technologies VMware Tanzu Advantage

Benefits of Dell Technologies solutions with VMware Tanzu

Preserve and extend your existing investments
Incrementally add support for containers with Kubernetes orchestration by extending your virtualization approach. Avoid operational silos and stranded capacity with a unified modern applications platform.
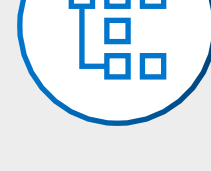
Streamline multi-cloud operations
Choose the right deployment option across private, public cloud and edge locations while avoiding application rework, with a consistent approach to both infrastructure and operations.

Stay secure with automated lifecycle management
Keep up-to-date with the rapidly evolving open-source software ecosystem with non-disruptive, cluster-aware automated full-stack updates that avoid downtime with synchronized firmware and SDDC updates.
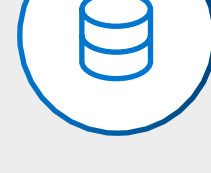
Deliver the right persistent data services
Choose the right service levels for your data persistence, from hyper-converged software-defined storage to high-performance purpose-built arrays, including file, block and object services.
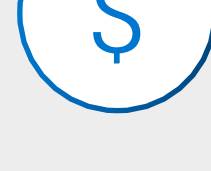
Protect your environment and apps
Ensure service availability for your modern applications with an enterprise-grade unified data protection approach for VMs, apps, and your Kuberenetes environment.

Choose the best platform approach
Deploy a container environment that meets your needs, whether customized from best-of-breed components, delivered as a turnkey package, consumed as-a-service, or completely managed for you.

Align payments with consumption
Provide financial flexibility with usage-based pricing, subscription terms, on-demand scalability, and options that can avoid up-front capital outlays as needed to align with your preferred consumption model.

The Dell Technologies Advantage: Quantified

85%
Compressed application development cycles –
Tanzu developers saw application development cycles dramatically reduced.[1]

5X
Increase in feature launches –
Increase feature launches from 8-10 to 55 per year.[2]

0%
Downtime to execute upgrades and patches –
Infrastructure can easily scale by adding capacity, and systems stay in compliance with zero downtime for developers.[2]

Choose Your Solution

Build a Kubernetes foundation across your entire infrastructure to operate consistently, ensure app portability, and optimize costs.

Build your own
Customize your platform with flexible Dell PowerEdge server options whether in a hyper-converged architecture or with purpose-built Dell storage. Start with bare-metal or software pre-installed, optionally add policy-driven dynamically provisioned storage arrays.

Turnkey
Deploy Kubernetes at the speed of cloud with our curated VxRail infrastructure options. Accelerate adoption with automated infrastructure deployment and stay current with full-stack lifecycle management.

As-a-Service
Dell Technologies APEX Private and Hybrid Cloud provide a simplified ordering process through the APEX console. Hardware, software and services are included in a predictable monthly price – to create a streamlined ownership experience delivered in as little as 14 days!

Fully-managed
Focus on driving innovation; we'll do the rest. APEX Cloud Services with VMware Cloud combines the security and control of private cloud with the ease of public cloud, by shifting time-consuming, labor-intensive tasks to Dell Technologies.

Learn more about the Dell Technologies Tanzu advantage