

DELL EMC DATA PROTECTION AND VMWARE TANZU

Dell EMC Data Protection and VMware Work Together to Revolutionize Modern Applications

The traditional application development and deployment models that defined the business of yesteryear has given way to a new wave of flexible and agile applications that allow businesses to quickly respond to the rapidly changing needs of today's diverse economic and technological landscape. The need to meet the growing needs of the business and the applications that support them are driving cloud strategies, and most organizations are pursuing a hybrid and multi-cloud strategy.

Within that strategy is the adoption of cloud native solutions whereby container-based applications are the choice of enterprise and cloud developers to meet the agility of the business. The most predominant method to orchestrate the container environment is with Kubernetes. As the adoption of Kubernetes grows, Dell Technologies is in lock step innovating along the way. Today, **80%** of those Kubernetes workloads are being placed in VMware virtual machines.

BUILD modern applications
RUN a consistent implementation of Kubernetes
MANAGE your entire Kubernetes estate from a single point of control
PROTECT your data, applications, and workloads for every step of your Kubernetes journey

Dell Technologies and VMware are helping customers change evolve their infrastructure to support modern applications with consistent operations and increased choice across hybrid cloud architectures. [Dell EMC PowerProtect Data Manager](#) brings enterprise data protection for the VMware Tanzu portfolio, on-premises and in the cloud. With VMware running Kubernetes everywhere, enabling the protection of Tanzu is essential for business operations.

The VMware Tanzu portfolio of products and services transforms the way the vAdmin builds applications on Kubernetes. As part of this strategy are VMware's vSphere 7.0 with native Kubernetes functionality and VMware Cloud Foundation 4.0. Since its release, Data Manager provides protection for Tanzu Kubernetes clusters in vSphere with Kubernetes, Tanzu Kubernetes Grid (TKG) and Tanzu Kubernetes Grid Integrated (aka TKGI).

As part of VMware and Dell's innovative collaborative partnership is Project Velero. Velero is designed as one of the basic tools that works with Tanzu to safely backup, restore, and migrate Kubernetes cluster resources and persistent volumes. PowerProtect Data Manager builds on Project Velero controller capabilities' and provides enterprise grade features such as app consistency, performance, faster backups, lifecycle management, guest cluster protection and supervisor cluster support. Project Velero provides the framework used to integrate

BENEFITS

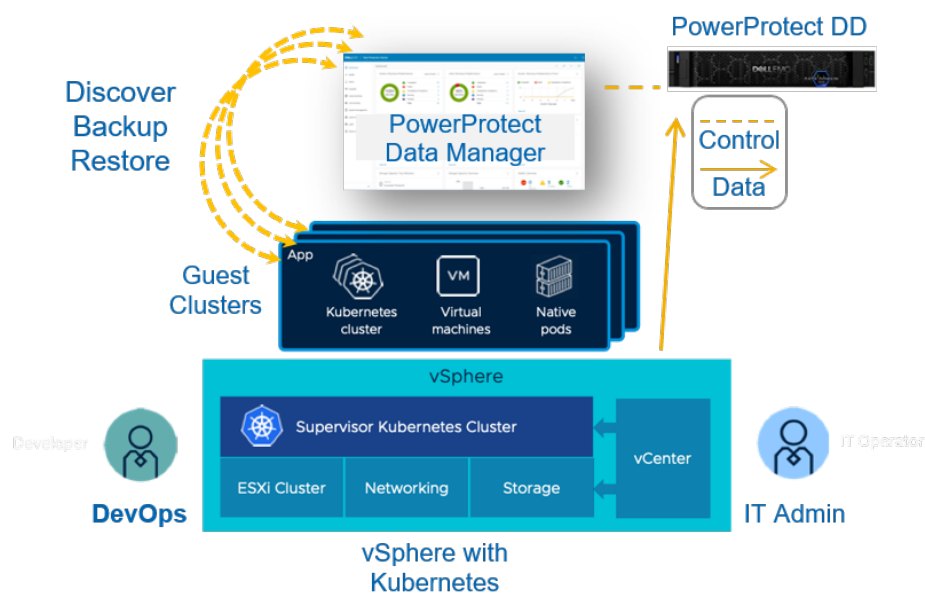
- Unified, enterprise grade protection across VMs, Kubernetes containers (TKG & TKG-I K8s clusters) running on-prem and in the public cloud.
- Worry-free migration for existing workloads to Kubernetes
- Central UI for IT Ops and backup admins, as well as self-service capabilities for DevOps
- Built-in collaboration with Project Velero (a basic backup and recovery tool) introducing Dell as the preferred provider for enterprise-grade protection
- Feature-rich including: app consistency, performance, faster backups, lifecycle management, guest cluster protection, supervisor cluster support and more.

Data Manager and introduces Dell EMC data protection as the preferred backup provider for enterprise-grade protection.

With single-vendor support systems in place for a customer's protection needs comes Project Pacific. This will enable our collective customers to take advantage of existing investments in their modern applications combined with technology, tools and skillsets. This expands developers to gain the benefits of Kubernetes not just for their cloud native applications, but for all applications. Leveraging Kubernetes as the control plane of vSphere, Project Pacific gives users the flexibility to build and manage apps comprised of containers or virtual machines (VMs).

PowerProtect Data Manager

PowerProtect Data Manager can be paired with PowerProtect DD Series Appliances or existing Data Domain systems for scalable backup and restore of Kubernetes applications. Data Manager is the first and only scalable data protection solution for VMs, applications, and Kubernetes in a single platform. PowerProtect Data Manager enables the discovery, protection and management of production workloads in Kubernetes environments and protects production and dev/test workloads to ensure that the data is easy to backup and restore.



PowerProtect Data Manager: On-premises and in the cloud.

Also, Dell EMC's data protection integration with vSphere empowers vAdmins to provision, monitor and manage the protection of their Kubernetes workloads. Additional benefits, now with Project Pacific provides unified data protection across VMs and Kubernetes containers with worry-free migration for existing workloads to other Kubernetes environments protected. Data Manager gives administrators a central UI for operations the self-service capabilities and policies to manage all their protection needs. VMware and Dell Technologies can help you modernize your infrastructure and secure your most critical assets. The powerful combination of Dell EMC and VMware's jointly engineered products delivering greater value to our customers to maximize and protect their IT investment now and into the future for building robust cloud native, hybrid and multi-cloud organizations.

Learn more at www.dellemc.com/dataprotection.