

DELLTechnologies



The Power of Storage Built for VMware

Bring modern storage to your VMware workloads with Dell storage platforms — built for VMware



vmware[®]

Modern storage solutions designed for today's data requirements

The world is changing at an accelerated pace, and one thing has become perfectly clear: data is key to your success. Organizations across the globe are racing to harness this new currency and use it to drive business insight and growth.

Moving forward, organizations must have a storage strategy aligned with their broader data and IT strategies. And that storage strategy must consider where the technology is headed. That's why Dell Technologies works closely with VMware® to enable a seamless transition from today's traditional application-oriented virtualized workloads to tomorrow's distributed cloud-powered solutions — all while ensuring data availability and protection.

This is a partnership that you can trust. For 20 years, Dell Technologies and VMware have worked and innovated together to make sure our products are well integrated. We have a long history of success bringing IT solutions to the market that work better together — and better for you.



We provide solutions — **from PowerMax and PowerStore enterprise storage arrays to scale-out file PowerScale platforms** — that address specific needs and help you achieve your broader cloud, workspace and digitization initiatives.



Why vVols?

- Gain finer control over storage resources and data services down to the VM level.
- Streamline storage operations with simplified management.
- Leverage your current storage investments and transition without disruption to a simpler and more efficient operation model.
- Simplify storage administration.
- Quickly provision storage for VMs.

Resources

- Watch vVols [video](#) >
- Read vVols [blog](#) >

¹Based on Dell internal analysis of max bandwidth (64K blocks) of the PowerMax 8000 (350GB/s) versus max bandwidth of competitive mainstream arrays, August 2020. Actual performance will vary.

VMware-enabled storage solutions to fit every need

At Dell Technologies, our mission is to eliminate the barriers to virtualization with highly interoperable solutions. We deliver enterprise storage capabilities for VMware that increase data efficiency, automate storage delivery and ensure data availability.

Scalable, native vVols support

Dell storage solutions include native VMware vSphere® Virtual Volumes (vVols) support. Simplify operations through policy-driven automation that enables more agile storage consumption for virtual machines (VMs) and real-time dynamic adjustments when needed. When you offload VM-level functionality to the array, you can improve both VM and storage performance and efficiency.

Dell PowerMax — The world's fastest data storage array¹

High-performance Dell PowerMax storage is engineered to meet the most demanding VMware requirements and support mission-critical workloads. Dell Technologies and Intel® have partnered to deliver the **industry's first storage array to offer storage class memory (SCM)** as persistent storage, a powerful, scalable performance architecture. PowerMax is ideal for mission-critical VMware workloads that must be always on.

Dell PowerStore — Helping you address challenges of the data era

The groundbreaking PowerStore family of all-flash data storage appliances eliminates traditional tradeoffs in performance, scalability and storage efficiency, with a **data-centric, intelligent and adaptable infrastructure** that transforms and mobilizes both traditional and modern workloads.

VMware-enabled storage solutions to fit every need

Support Modern and Traditional Workloads from Edge to Core with ObjectScale.



Software defined simplified to provide DevOps the ability to provision and scale object storage via Kubernetes



Enterprise-proven infrastructure to deploy at scale



Powers modern apps to support modern S3 workloads such as AI, analytics and media content

Dell PowerScale — Innovate with your unstructured data

Address the challenges associated with unstructured data management with the **world's most flexible scale-out NAS solution**.² PowerScale storage lets you create a simple, enterprise data lake to handle diverse and demanding on-premises and public cloud workloads with storage **designed for six nines (99.9999%) of availability**.³

Dell ObjectScale — Software-defined object storage

Dell ObjectScale is designed for Kubernetes®. Capable of scaling to any capacity and connecting sites from edge to core with a few simple clicks, it delivers S3-compatible, globally scalable, enterprise-grade object storage. And Dell ObjectScale is integrated with VMware vSphere with Tanzu™ and provides developers with the freedom to provision and scale high-performance object storage via Kubernetes APIs while ensuring exceptional simplicity, manageability and reliability for IT.

² Based on Dell Technologies analysis, August 2021. Do not use in Chile, China, Colombia, Costa Rica, Guatemala, Hong Kong, Korea, Malaysia, Russia, South Africa, Taiwan, Ukraine, Venezuela or Vietnam.

³ Based on internal hardware availability numbers for the Dell PowerScale family, which includes PowerScale and Isilon nodes.

Integration and automation that powers DevSecOps

Cloud-native technologies are the new standard, which is why we're working with VMware to make it easier to automate key workloads and development, security and operations (DevSecOps) functions.

Cloud-native technologies, including microservices deployed in containers, are the foundation for implementing this new applications infrastructure. And **Dell Technologies provides integrated solutions featuring VMware Tanzu™**, which allow organizations to evolve their existing virtualization approach to include cloud-native technologies.

The same is true for developers. Our storage solutions are also tightly integrated with Red Hat® Ansible®, open-source software, which automates the creation and management of developer environments, making life easier for the developers — and the people managing those environments and applications.





Simplify with integrated management capabilities.

In this era where VMware is deploying virtual SANs, it's important to note that businesses still rely on shared storage. They like having a large resource pool from which to draw. And external storage arrays can do things like deduplication, compression, mirroring, etc. — all without taxing CPU cycles.

Managing hardware and software resources can be challenging. With open management capabilities, however, you gain access to the VMware vRealize® Suite of tools that help streamline management tasks.

Dell storage platforms use vRealize Suite to manage and monitor VMware storage. With VMware technologies like vRealize Orchestrator™ and vRealize Operations™, together with Dell VMware plug-ins like VSI and ESI, you can monitor and manage your Dell storage directly within your VMware environments.



Bring virtualization to your storage with AppsON.

Dell PowerStore is the only purpose-built array with VMware vSphere built in. Integration with vSphere results in simplified, streamlined management where storage resources plug directly into the virtualization layer.

Storage administration is also easier, as supporting data management applications can be run directly on the array, simplifying operations and consolidating targeted external VMs.

The consolidated solution provided by PowerStore with AppsON offers unique capabilities for environments where infrastructure simplicity and density are desirable or critical, including edge computing and remote office, branch office (ROBO) deployments.

Gain Application Flexibility and Mobility with AppsON.

AppsON is an industry-first capability that allows VMware virtualized workloads to run directly on the purpose-built array, delivering groundbreaking application mobility and flexibility.





“The tight integration with VMware and our vCenter environment will allow us to easily migrate workloads between PowerStore and our other compute platforms.”

Steven Kouvo,
IS Technology Architect,
Boston Scientific

Watch customer
testimonial [video](#) >

Realize the full potential of your VMware environments with powerful and flexible data storage platforms.

Dell Technologies and VMware make IT workable, seamless and sustainable, especially with our mix of client- and server-side solutions and platforms. Together, we are innovating for the future and developing technologies with a streamlined approach that delivers the agility your business needs with proven, modern and secure solutions.

Key benefits

- **Reduce TCO.** Leverage your existing storage investments, skill sets and operational procedures, and reduce the overall cost of application deployments.
- **Leverage the unique functionality of Dell storage,** including highly available enterprise storage architectures, machine learning–based service levels, advanced cybersecurity with immutable snapshot, and leading data reduction capabilities and more.
- **Provide more granular performance scale.** Enterprise storage can scale independently from the compute infrastructure. When application use cases demand high-I/O density solutions, traditional storage can provide that flexibility.

Discover what's possible.

For more information about Dell Technologies storage solutions, contact your sales representative or visit the following:

- Dell Storage Solutions for VMware [website](#) >
- Interactive [demos](#) >

Additional resources

- Blog: [Pivot to Hybrid with VMware Cloud Foundation on VxBlock | Dell Technologies](#) >
- Solution brief: [VMware Cloud Foundation™ and Dell Storage](#) >
- Solution brief: [Designed for VMware — Dell PowerMax](#) >
- Solution brief: [Designed for VMware — Dell PowerStore](#) >
- Solution brief: [Power your VDI with Dell PowerStore](#) >
- Solution brief: [Dell ObjectScale on VMware Tanzu](#) >
- Boston Scientific [case study video](#) > — PowerStore and tight integration with VMware
- [View more Dell data storage customer stories](#) >

Other Dell Technologies and VMware eBooks

- [Power of Dell and VMware](#) >
- [Dell VxRail and VMware: Optimize Your Hyperconverged Experience](#) >
- [Four Ways to Drive a Modern Apps Strategy](#) >
- [Four Reasons VMware and Dell PowerEdge Servers Work Better Together](#) >
- [Modernize the workforce experience](#) >



The photography portraying people working in close proximity of one another was taken prior to the global pandemic.

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