



Dell Technologies Data Center Breakthroughs Power Smarter, Faster and More Secure Private Clouds

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Story Highlights

- Dell Private Cloud is generally available to help customers easily deploy and manage private cloud infrastructure
- Dell storage advancements include new PowerStore and PowerMax QLC models, AI-driven automation and strengthened security
- Dell PowerStore integration with Nutanix Cloud Platform will offer greater flexibility, performance and simplified IT operations
- Dell PowerFlex Ultra release achieves up to 80% storage efficiency, 10x9s data availability and reduced costs
- Dell PowerProtect innovations provide robust cyber resilience with advanced security, centralized management and scalable solutions for modern workloads

ROUND ROCK, Texas--(BUSINESS WIRE)--Sep. 24, 2025-- Dell Technologies (NYSE: DELL) announces significant private cloud infrastructure advancements to help customers manage both traditional and modern workloads with greater speed, efficiency and security.

Why it matters

Many IT teams struggle to handle the demands of both traditional and modern workloads while dealing with rising costs, evolving virtualization needs and vendor lock-in concerns. Organizations are adopting disaggregated private clouds built with virtualization-optimized compute, storage and cyber resilience solutions that provide greater flexibility, choice and control over their data.

[Dell Private Cloud](#), delivered through the [Dell Automation Platform](#) with on-premises and SaaS deployment options, helps customers easily automate, scale and manage [private cloud deployments](#) using their preferred cloud OS stack and Dell disaggregated infrastructure including PowerStore, PowerFlex, and PowerMax. Customers can use AI-driven automation for infrastructure management and monitoring.

Additionally, integration of [Dell NativeEdge](#) into the Dell Automation Platform provides a full stack solution optimized to simplify and secure operations across distributed cloud and edge environments.

Storage and cyber resilience are key to any private cloud. Dell is introducing significant innovations in these areas to help customers build smarter, faster and more secure private clouds.

Dell PowerStore adds QLC model and Nutanix Cloud Platform integration

[Dell PowerStore](#) delivers simple, enterprise-grade, high-performance storage tightly integrated with modern virtualization platforms and adaptable for containerized environments. The Nutanix Cloud Platform solution will soon [support](#) Dell PowerStore, combining Dell's trusted storage innovation with Nutanix's cloud operating model to meet customer demand for greater choice and control in how they deploy infrastructure.

PowerStore's latest hardware and software advancements deliver greater cost-efficiency, AI-accelerated automation and enhanced resiliency.

- **Enterprise performance, lower costs:** PowerStore 5200Q offers high-capacity performance with the economics of QLC flash, flexible scaling up to 25PBe per cluster and optimized workload placement through integration with existing PowerStore clusters.
- **Software-driven security and resiliency:** Improve enterprise security and resiliency with built-in anomaly detection, single sign-on and biometric authentication, HashiCorp key manager support and replication over fibre channel.
- **AI-powered self-healing:** Cut issue resolution time by 90%¹ through automated health checks and repairs powered by Smart Support Auto-Heal functionality.

Dell PowerFlex provides efficient petabyte-scale storage consolidation

[Dell PowerFlex](#), the industry's most resilient software-defined block storage ², offers flexible, software-defined storage that scales linearly and features deep virtualization and Kubernetes integrations. The PowerFlex Ultra release introduces the Scalable Availability Engine (SAE) which drastically simplifies workload management and reduces costs with improved efficiency and reliability.

- **Reimagining software-defined storage:** PowerFlex's Scalable Availability Engine (SAE) is built on a native block, fully distributed, erasure-coded architecture that delivers breakthrough storage efficiency, resiliency and scalability for software-defined data centers.
- **Extreme storage efficiency:** Achieves up to 80% storage efficiency³ with over 50% reduction in physical storage footprint⁴, allowing organizations to store more data in less space while lowering costs and power consumption.
- **Data availability and resiliency:** Delivers up to 10x9s of data availability with the ability to tolerate up to two node failures simultaneously, ensuring enterprise workloads remain operational even during hardware failures while maintaining data integrity across large-scale deployments.

Dell PowerMax provides mission-critical performance, automation and security

[Dell PowerMax](#) offers mission critical storage with enterprise-class scalability, automation, and resiliency with broad integrations for virtualized environments and full Kubernetes CSI support for container workloads. Software advancements deliver up to 25% greater performance⁵, advanced automation and enhanced security for mission-critical environments.

- **Enhanced automation:** Free up IT teams to tackle higher-value tasks with features like 1-click software updates in less than 6 seconds⁶, zero-touch management installs and the ability to achieve up to a 66% reduction in steps for replication mode changes⁷.
- **QLC support:** PowerMax 2500 introduces QLC drive support for capacity-intensive workloads while delivering flexible single-drive scaling from 122TB to 8.8PB per array.
- **Advanced security:** The world's most secure mission-critical storage⁸ platform now includes features like Single Sign-On with Microsoft Entra ID and encrypted email alerts to ensure the highest standards of data protection and compliance.

Dell PowerProtect helps organizations build a cyber resilient foundation for modern data centers

[Dell PowerProtect](#) offers cyber resilience for virtual, cloud-native and containerized workloads across data centers and every major public cloud, helping ensure rapid recovery to keep businesses running without disruption. The latest appliance and software innovations help organizations reduce their attack surface, detect and respond to threats and quickly recover from cyber incidents.

- **Entry-level appliance, enterprise-level security:** The new **PowerProtect Data Domain DD3410** is a compact solution for remote offices and smaller environments with exceptional data reduction capabilities, grow-in-place scalability from 8 to 32 TBu and advanced security to keep data safe. The appliance supports a broad partner and backup software ecosystem and native integration with Dell PowerStore and PowerMax.
- **Unified cyber resilience experience:** The new PowerProtect Data Manager Appliance is a modern, software-defined solution that delivers centralized management for consistent operations. It enhances cyber resilience with enterprise-grade protection, including anomaly detection, data immutability and integrity to safeguard against disruptions and threats. The Data Manager Appliance is the best way to achieve cyber resilience with Dell PowerProtect.

Perspectives

"At Dell Technologies, we're empowering our customers with solutions that not only meet today's IT challenges but also anticipate tomorrow's needs," said Travis Vigil, senior vice president, ISG Product Management, Dell Technologies. "Our latest storage and cyber resilience advancements are designed to help organizations build private clouds that are smarter, more secure and ready to handle the demands of both traditional and modern workloads."

"With our Nutanix Cloud Platform soon supporting Dell PowerStore, we will be giving customers a new choice in how they architect their virtualized environments," said Thomas Cornely, senior vice president, Product Management at Nutanix. "This integration will deliver an enterprise-grade solution that meets today's demands for flexibility, while allowing organizations to build confidently with Dell infrastructure."

"Organizations today face the dual challenge of managing traditional and modern workloads while navigating rising costs and evolving IT demands," said Simon Robinson, principal analyst, Enterprise Strategy Group, now part of Omdia. "Dell's latest advancements in storage and cyber resilience provide a comprehensive and flexible foundation for disaggregated private cloud environments, empowering businesses to achieve greater efficiency, security and scalability across their IT operations."

Availability

- Dell Private Cloud is available today with support for Dell PowerStore, Dell PowerFlex and Dell PowerMax.
- Dell NativeEdge integrated with the Dell Automation Platform is available today.
- Dell PowerStore 5200Q will be available in October 2025.
- Dell PowerStore software updates will be available in October 2025.
- Dell PowerStore support for Nutanix will be available in early access in Spring 2026.
- Dell PowerFlex updates will be available in October 2025.
- Dell PowerMax updates are available in October 2025.
- Dell PowerProtect Data Domain DD3410 will be available in Q1 2026.
- Dell PowerProtect Data Manager Appliance will be available in Q4 2025.

Additional Resources

- Connect with Dell on [X](#) and [LinkedIn](#)
- Blog: [New Chapter in Choice - Dell PowerStore Coming to Nutanix](#)
- Blog: [Is Your Storage Ready for Tomorrow's Private Cloud?](#)
- Blog: [End Storage Tradeoffs at Scale with PowerFlex](#)
- Blog: [Announcing PowerMaxOS 10.3 - Raising the Bar for Mission-Critical Storage](#)
- Blog: [Unbreakable Cyber Resilience: Supercharge Your Private Cloud](#)

About Dell Technologies

[Dell Technologies](#) (NYSE: DELL) helps organizations and individuals build their digital future and transform how they work, live and play. The company provides customers with the industry's broadest and most innovative technology and services portfolio for the AI era.

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1. Based on internal testing comparing call support resolution and Smart Support auto healing time to resolution.
2. Based on Dell analysis of software-defined block storage systems and the external enterprise storage market, August 2025.
3. Effective storage capacity savings using erasure coding compared to mirroring in PowerFlex 4.x and earlier. Comparison made using identical node capacity of 154TB. To obtain an effective capacity of 2.54PB, PowerFlex 5.0 (8+2 EC) requires 11 nodes.
4. Based on Dell internal testing, using 11 node PowerFlex 5.0 cluster versus previous generation PowerFlex software. May 2025.
5. Based on Dell's internal testing for the Random Write Miss I/Os per second benchmark comparing PowerMaxOS 10.3 to PowerMaxOS 10.2, July 2025.
6. Based on Dell's internal analysis of updating PowerMaxOS 10.3 software with a single click, July 2025.
7. Based on Dell's internal analysis of changing PowerMax SRDF/S to SRDF/Metro, comparing PowerMaxOS 10.3 vs. 10.2, July 2025.
8. Based on Dell's internal analysis of cybersecurity capabilities of Dell PowerMax versus cybersecurity capabilities of competitive mainstream arrays supporting open systems and mainframe storage, April 2025.

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