

Dell Technologies Reimagines the Modern Data Center for the AI Era

May 19, 2026

New storage, compute, cyber resilience and automation innovations deliver a foundation built for modern and traditional workloads

- Dell PowerStore Elite redefines enterprise storage performance and efficiency with an up to 3x performance increase, industry-best 6:1 data reduction and non-disruptive upgrades
- Dell PowerEdge portfolio expands with eleven new servers that significantly improve data center efficiency across air-cooled and liquid-cooled environments
- Dell PowerProtect One and Dell Cyber Detect simplify and strengthen AI-powered cyber resilience across the data center
- Dell Private Cloud expands with the ability to deploy the latest Broadcom, Microsoft and Nutanix software innovations
- Dell Automation Platform pairs AI agents with a conversational interface to transform how companies deploy, monitor and manage infrastructure
- Dell Automation Studio delivers AI-assisted, full-stack orchestration so customers can build custom automation workflows across their infrastructure and applications

LAS VEGAS--(BUSINESS WIRE)--May 19, 2026-- **Dell Technologies World** —Dell Technologies (NYSE: DELL) introduces a new generation of storage, compute, cyber resilience and automation innovations built to power the modern data center.

Why it matters

AI is scaling faster than most data centers were built to handle and the applications running the business can't wait. Enterprises don't have the luxury of choosing between what's next and what's now. Dell's latest storage, compute, cyber resilience and automation innovations are built to deliver both.

Eliminate storage tradeoffs

[Dell PowerStore Elite](#) is an intelligent, open storage platform that combines AI-driven software, next generation hardware and non-disruptive modernization. The platform triples performance¹ and density² compared to prior generations, packs up to 5.8 petabytes of effective capacity into a single 3U appliance³ and is backed by an industry-best 6:1 data reduction guarantee.⁴ Built on industry-standard E3 flash, PowerStore Elite reduces cost per workload while keeping every component, including drives, controllers and networking, modular and field-upgradable, so organizations can evolve their infrastructure without downtime or data migration.

Redefine compute and cooling

The 18th generation of [Dell PowerEdge servers](#) deliver up to 70% better performance⁵ and 13-to-1 consolidation⁶ through advanced air-and liquid-cooling designs. Organizations gain dramatically more compute in the same footprint with unified management and security built in.

- **AI, HPC and demanding workloads:** The liquid-cooled Dell PowerEdge M9825 with AMD EPYC™ 8th Gen processors deliver modular, ultra-dense compute in factory-integrated IR7000 racks. Designed for the next wave of AI and high-performance workloads, it scales reliably beyond the limits of air-cooled racks, reducing deployment risk and providing predictable, high-impact performance.
- **PCIe-based AI at scale:** New air-cooled Dell PowerEdge XE5845 and next-generation XE7845 servers bring higher performance and greater flexibility to PCIe-based AI deployments, supporting next-generation GPUs.
- **High-performance air-cooled compute:** The Dell PowerEdge R9825 (dual-socket, 3U) and R9815 (single-socket, 2U) feature 6th Gen AMD EPYC™ processors, bringing high core density – up to 256 cores per system and increased I/O bandwidth to demanding workloads without requiring liquid cooling or data center retrofits.
- **Enterprise consolidation:** The Dell PowerEdge R9810 is a high-end, single-socket 2U server powered by Intel's next-gen server processor, codenamed Diamond Rapids, delivering double the memory bandwidth⁷, increased cache capacity and up to 50% increase in core count with PCIe expansion.⁸
- **Space-efficient compute:** The 1U Dell PowerEdge R8815 and R6815 include 6th Gen AMD EPYC™ processors and consolidate traditional dual-socket footprints onto efficient single-socket platforms, reducing power, cooling and licensing costs.
- **Versatile and storage-dense platforms with AMD EPYC™:** The Dell PowerEdge R7815 offers flexible PCIe Gen6 and drive configurations. The R7815xd extends the single-socket design into storage-dense environments, and the dual-socket R7825 expands scalability for dense virtualization and analytics.

Unify cyber resilience

From AI-powered attacks to ransomware, today's cyber threats are growing more sophisticated and disruptive. Organizations need threat detection, unified protection management and rapid recovery working together as a single operational model.

- [Dell PowerProtect One](#) is the world's most comprehensive cyber-resilience platform⁹, purpose-built to secure,

detect and rapidly recover business-critical data across any environment. It brings together Dell PowerProtect Data Manager for protection management and orchestration and Dell PowerProtect Data Domain for secure, efficient protection storage under a single control plane. PowerProtect One reduces operational sprawl and delivers a unified experience through third-party support and centralized visibility that cuts management overhead by 50%¹⁰ while delivering the world's best data reduction ¹¹ and recovery at scale.

- [Dell Cyber Detect](#) extends AI-powered ransomware detection directly into Dell PowerStore and Dell PowerMax enterprise storage. Trained on thousands of ransomware variants and inspecting data at the byte level with 99.99% accuracy,¹² it pinpoints the last known clean copy so organizations can recover fast.

Simplify and automate the full stack

Dell introduces software innovations that deliver cloud simplicity and agentic intelligence for infrastructure management. The Dell Automation Platform serves as the common foundation, powering private cloud deployments and expanding AI-driven automation capabilities.

Private Cloud Everywhere

- [Dell Private Cloud](#), delivered through Dell Automation Platform, lets organizations deploy and run their preferred cloud stack from vendors like Broadcom, Microsoft, Nutanix and Red Hat on open, disaggregated Dell infrastructure with automated lifecycle management. It scales compute and storage independently, avoids lock-in and delivers up to 65% cost savings versus HCI.¹³ New ecosystem advancements include the ability to deploy VMware Cloud Foundation 9.1, Microsoft Azure Local and Dell PowerStore integration with Nutanix AHV.
- [Dell Distributed Private Cloud](#) (formerly Dell NativeEdge) extends enterprise-class resilience to edge and distributed environments with two-node high-availability clusters, automatic failover, enhanced VM live migration, built-in zero-trust security and zero-touch endpoint support, reducing costs and simplifying operations at distributed sites.

AI-Driven Automation

- [Dell Automation Platform](#) introduces agentic intelligence through a personalized generative user experience that adapts to how teams design, operate and manage infrastructure. By integrating Dell AIOps, Dell Automation Platform turns telemetry into action using intelligent agents to continuously optimize systems while keeping customers in control.
- [Dell Automation Studio](#) is a premium set of Dell Automation Platform capabilities that allow customers to create AI-driven compute, storage and networking automation workflows using familiar tools and processes that reduce time-to-service and operational complexity. Open and flexible by design, Automation Studio lets organizations create tailored solutions that deliver consistent, full-stack automation at scale.

Perspectives

Arthur Lewis, president, Infrastructure Solutions Group, Dell Technologies:

"AI doesn't wait, and neither can the infrastructure under it. The modern data center is defined by intelligent software that makes IT simpler, and we're delivering it end-to-end. PowerStore Elite, next-generation PowerEdge servers, PowerProtect One and the agentic automation across Dell Private Cloud give customers a complete, software-driven foundation to run their most demanding workloads today and keep evolving for what comes next."

Matt Kimball, VP & Principal Analyst, Moor Insights & Strategy:

"IT teams are being asked to support AI, defend against increasingly sophisticated threats, and modernize infrastructure - often without adding headcount. Dell's approach stands out because it addresses the operational reality across the full stack. PowerStore Elite helps eliminate the traditional storage refresh cycle, PowerEdge enables meaningful infrastructure consolidation and PowerProtect One simplifies cyber resilience. Together, these technologies reduce operational complexity, which remains one of the largest hidden costs in enterprise IT."

Availability

- Dell PowerStore Elite will be available in July 2026.
- Dell PowerEdge M9825, Dell PowerEdge R9825 and Dell PowerEdge R9815 servers will be available in 2H 2026.
- Dell PowerEdge XE5845 and Dell PowerEdge XE7845 servers will be available in Q1 2027.
- Dell PowerEdge R9810 server will be available in 2027.
- Dell PowerEdge R8815, Dell PowerEdge R6815, Dell PowerEdge R7815, Dell PowerEdge R7815xd and Dell PowerEdge R7825 servers will be available in 2027.
- Dell PowerProtect One is available now.
- Dell Cyber Detect for Dell PowerStore will be available Q3. Dell Cyber Detect for Dell PowerMax will be available in 2H 2026.
- Dell Private Cloud deploying VMware with VCF 9.1 support will be available in June 2026.

- Dell Private Cloud deploying Nutanix with Dell PowerStore support will be available in July 2026.
- Dell Private Cloud deploying Microsoft Azure Local will be available in June 2026.
- Dell Distributed Private Cloud is available now.
- Dell Automation Platform Agentic AI capabilities are planned to be available later this year.
- Dell Automation Studio will be available in June 2026.

Additional resources

- [Dell Technologies World 2026 Press Kit](#)
- Blog: [Introducing PowerStore Elite: Built to Lead in an Unpredictable World](#)
- Blog: [AI Infrastructure for Enterprise: Time to Move Past the Pilot](#)
- Blog: [Cyber Resilience, Simplified](#)
- Blog: [Dell Ushers in the Agentic Era of IT Operations](#)
- Connect with Dell on [X](#) and [LinkedIn](#)

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.

1. Based on internal analysis comparing PowerStore 1500 and 1200T models using peak IOPs running 70/30 read/write mix, 8k block size over FC. Actual results will vary.
2. Based on a comparison of fully populated base chassis: PowerStore 9500 assuming a 6:1 data reduction rate (DRR) versus PowerStore 9200T assuming a 5:1 DRR. Actual results may vary.
3. Based on maximum configuration of PowerStore 9500 base chassis. Effective capacity assumes average 6:1 data reduction. Actual results vary.
4. Based on Dell analysis comparing primary storage data reduction guarantees vs Dell's Storage Data Reduction program – May 2026. For PowerStore Gen 3, applies to new arrays initially installed with PowerStoreOS 5.0. For details see: All-Flash Data Reduction Guarantee Terms and Conditions. Actual data reduction rates will vary.
5. Based on internal analysis compared to 17th generation., May 2026
6. Based on internal analysis compared to 17th generation., May 2026
7. The Dell PowerEdge R9810/R9820 delivers memory bandwidth up to 12,800 MT/s, doubling the 6,400 MT/s capability of the previous 17th Generation Dell PowerEdge servers. This represents a 2x improvement in memory bandwidth between generations.
8. The Dell PowerEdge R9810/R9820, equipped with Intel Diamond Rapids (DMR) P-core CPUs, delivers 50% more CPU cores than the previous generation. While Intel Granite Rapids (GNR) P-core CPUs offer 128 cores per socket, Diamond Rapids scales up to 256.
9. Based on Dell analysis of leading enterprise backup, cyber-resilience, and purpose-built backup appliance as of April 2026. Evaluation considered breadth of cyber-resilience capabilities; depth of integrated storage security; workload and environment coverage; openness of ecosystem; unified management experience; and availability of formal financial guarantees. Analysis is based on publicly available vendor documentation, third-party research, and Dell product materials. Actual capabilities and results may vary.
10. Based on Dell internal analysis, October 2025.
11. Based on Dell analysis of the purpose-built backup appliance market and available max average deduplication ratios. December 2025.
12. Based on an Omdia/ESG report commissioned by Index Engines, "Index Engines' Cyber Detect Validated 99.99% Effective in Detecting Ransomware Corruption". June 2024. Actual results may vary.
13. Based on internal Dell testing comparing the three-year cost of a five-node HCI cluster (92 TB storage, 163 TB capacity) to Dell Private Cloud with BYOS. Results assume data compression, DDR ratios, VMware RAID 5 erasure coding, and 1.5x compression. Actual results may vary. March 2026.

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