

# Dell AX System for Azure Local with Dell Storage

## Designed with storage flexibility in mind

Modern enterprises face unprecedented challenges in managing dynamic workloads and rapidly growing data. Hybrid cloud solutions with both flexibility and scalability are essential to meet these demands. Storage Spaces Direct (S2D) in Azure Local delivers robust performance tailored to meet the needs of smaller environments. For larger deployments scaling beyond eight nodes or scenarios requiring independent scaling of storage, there's an opportunity to explore optimizations that enhance flexibility and efficiency as your infrastructure evolves.

The Dell AX System for Azure Local, integrated with Dell PowerFlex or Dell PowerStore, offers a groundbreaking approach to Azure adaptive cloud. By addressing the limitations of traditional software-defined storage, Dell storage integration delivers predictable high performance and unmatched flexibility. Its architecture enables seamless management of applications and data across on-premises and public cloud environments, ensuring



smooth hybrid cloud operations and empowering enterprises to adapt confidently to evolving workloads.

Engineered for exceptional performance and reliability, both PowerFlex and PowerStore extend the storage fabric to unlock new levels of operational efficiency. This integration eliminates scaling barriers, providing robust control over hybrid environments while supporting transformational growth. Rigorously tested and validated by Dell Technologies and Microsoft, the solutions ensure organizations are equipped with the enterprise-class capabilities needed to overcome complex operational challenges and drive innovation.

## Unleash the full potential of your hybrid cloud infrastructure

### Extreme performance

PowerFlex and PowerStore are optimized for high-performance and low-latency environments, making them ideal for enterprise applications, transactional databases, and demanding workloads. Businesses can rely on these platforms' robust performance to support operations that require uncompromising reliability and rapid transaction processing.

### Exceptional availability

With ten 9s (99.9999999%) availability,<sup>1</sup> PowerFlex offers near-continuous uptime, minimizing annual downtime to just milliseconds. PowerStore is similarly engineered for six 9s of availability, with a resilient active architecture and non-disruptive upgrades that ensure uninterrupted operations for enterprise workloads, whether supporting e-commerce platforms, healthcare systems, or other essential services. Rapid rebuild and rebalancing capabilities further enhance resiliency, providing peace of mind in the face of unforeseen disruptions.

### Efficiency and data optimization

PowerStore's advanced, always-on data reduction delivers long-term cost savings without impacting performance. Backed by an industry-leading 5:1 data reduction guarantee,<sup>2</sup> it increases effective capacity and lowers storage costs. Meanwhile, PowerFlex leverages space-efficient erasure coding to provide resilient protection with minimal overhead.

### Extreme scalability

Businesses experiencing exponential data growth need infrastructure that can scale dynamically to meet demand. PowerFlex's modular architecture allows for seamless, non-disruptive scaling of resources, while PowerStore's scale-up and scale-out flexibility can seamlessly adapt to evolving capacity and performance needs. Both platforms help enterprises handle both predictable growth and unexpected workload spikes while maximizing resource utilization and minimizing costs.

## Workload diversity

PowerFlex and PowerStore consolidate diverse workloads—from transactional databases to complex analytics workloads—onto modern, unified infrastructure. This eliminates infrastructure silos, simplifies management, and reduces operational overhead, enabling businesses to optimize resource efficiency and accelerate innovation.

## Real-world applications

### Financial services

Process high-volume transactions in real time while running fraud detection algorithms on the same infrastructure, ensuring fast, reliable performance for critical financial systems.

### Healthcare

Support electronic medical record (EMR) systems and advanced data analytics for patient care in a secure, high-availability environment.

### E-commerce

Handle high transaction volumes and manage personalized shopping experiences with consistent I/O performance and scalable infrastructure.

### Artificial intelligence and analytics

Enable rapid data processing and model training for industries such as manufacturing, research, and logistics.

## Modern data protection and security

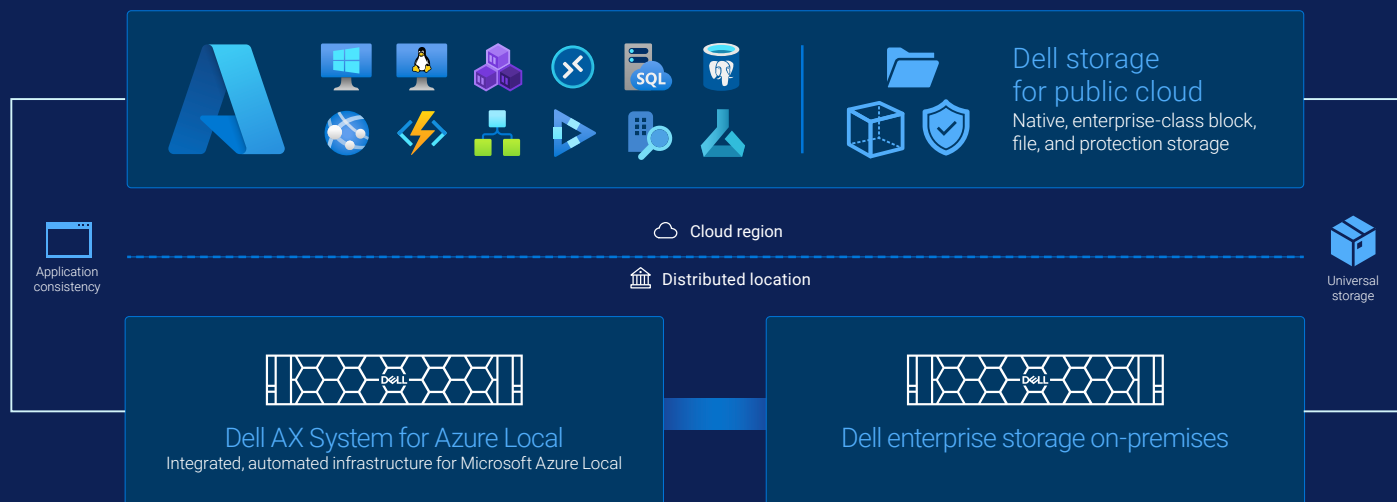
Dell PowerFlex and PowerStore provide comprehensive data protection and security features, including snapshots, replication, encryption, and integration with Dell data protection solutions. These capabilities help safeguard mission-critical data, support compliance requirements, and enable rapid recovery from failures or cyber incidents—without sacrificing performance or adding operational complexity.

## Delivering hybrid cloud innovation

The combination of Dell PowerFlex or PowerStore and the Dell AX System for Azure Local represents a major leap forward in hybrid cloud innovation. By delivering exceptional performance, scalability, and control, these solutions empower enterprises to confidently meet evolving storage demands.

From eliminating performance bottlenecks to enabling seamless resource scaling and data mobility, these solutions ensure businesses can meet today's challenges and anticipate future demands with confidence.

# Driving innovation with Dell storage integration



Explore  
Dell AX System for Azure Local

Learn more about  
Dell Storage solutions

<sup>1</sup>Based on Dell internal testing, May, 2025.

<sup>2</sup>5:1 average rate guaranteed across customer applications. Rates for individual applications may vary. See Future-Proof program terms and conditions for details.

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