

# Unlock SQL Server's Full Potential with Everpure

How the Everpure Platform eliminates the storage bottleneck holding back SQL Server 2025 workloads

Microsoft SQL Server remains one of the most widely deployed and trusted database platforms for mission-critical environments, supporting everything from transactional systems to data warehousing and business intelligence. The release of SQL Server 2025 has introduced groundbreaking advancements, from native AI integration and vector search to cloud-connected innovation. As SQL Server data volumes grow and workloads diversify, you need the right data infrastructure to realize its full potential.

Native vector search with DiskANN introduces new I/O patterns inside existing databases. AI workloads run alongside transactional systems, competing for the same storage resources. Retrieval-augmented generation (RAG) pipelines introduce bursty, unpredictable query behavior. And hybrid data architectures add new latency and consistency challenges. Individually, none of these break your environment. Together, they expose the limits of traditional storage.

Latency becomes inconsistent under mixed workloads. Capacity grows faster than expected due to embeddings and data duplication. Backup and recovery windows stretch under larger data sets. And every infrastructure upgrade still introduces risk, downtime, and revalidation effort that SQL Server teams can't afford. This is not a performance problem. It's an infrastructure model problem.

## How Everpure addresses each SQL Server 2025 storage demand

SQL Server 2025 introduces new capabilities that change how storage is consumed and stressed. The following table outlines what these features do, the storage demands they create, and how Everpure™ addresses each requirement.



### Consistent performance and efficiency

Get ultra-low latency, gain 3X performance density vs. competitor solutions, and cut your AI vector footprint up to 60% with FlashArray™ vs. nonoptimized vector storage environments.



### Rapid recovery at scale

Recover 10TB databases in 10 minutes or less.



### Six nines uptime, zero planned downtime

Upgrade software, hardware, and capacity without service interruption, backed by a 99.9999% uptime guarantee.

| What SQL Server does                                     | What that means for storage                                      | The Everpure solution                                                                                                                                                                              |
|----------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Native vector search (DiskANN) inside SQL Server</b>  | Mixed vector and OLTP I/O on shared arrays                       | FlashArray//XL™ delivers up to 3X IOPS per rack unit vs. similarly configured competitive systems, with consistent, ultra-low latency under mixed workloads.                                       |
| <b>RAG pipelines and AI-driven query patterns</b>        | Unpredictable bursts alongside steady transactional load         | Evergreen® Architecture enables nondisruptive infrastructure upgrades and scaling, allowing organizations to increase performance headroom for bursty workloads with minimal operational overhead. |
| <b>Hybrid data access (S3, ADLS, Fabric integration)</b> | Increased dependency on throughput and low-latency data movement | The unified Everpure Platform supports block, file, and object storage, with consistent performance across environments.                                                                           |
| <b>Growing data volumes and AI vector embeddings</b>     | Rapid capacity expansion without proportional performance gain   | Inline deduplication and compression reduce the AI vector storage footprint by up to 60% compared to conventional, nonoptimized vector storage environments.                                       |
| <b>Larger backup and recovery data sets</b>              | Longer backup windows and slower restores                        | High-throughput parallel performance enables rapid recovery.                                                                                                                                       |

### What changes when you move to Everpure

Everpure redefines how SQL Server environments are maintained, protected, and scaled.

- **No more upgrade downtime.** Evergreen Architecture decouples storage maintenance from SQL Server operations. Controllers, software, and even protocols upgrade nondisruptively while production databases keep running. The FlashArray™ SLA guarantees 99.9999% uptime and zero planned downtime. When Microsoft releases the next major version after SQL Server 2025, you upgrade the database without also scheduling a storage maintenance window.
- **Protection without add-on licensing.** Always-on encryption, immutable SafeMode™ Snapshots, ActiveCluster™ synchronous replication, and ActiveDR™ async disaster recovery are all included in the platform. ActiveCluster also enables nondisruptive workload migration between arrays, letting teams decouple database operations from storage maintenance entirely. These are standard capabilities, not premium tiers.
- **Operational consolidation.** Block, file, and object storage converge in one data layer managed through Everpure Fusion™. Provisioning, protection, and scaling policies are defined once and enforced consistently across on-premises, cloud, and hybrid SQL Server deployments. That eliminates the tool sprawl and manual handoffs that slow infrastructure teams down.

### The conversation CTOs need to hear

Most SQL Server 2025 upgrade conversations focus on compute and database licensing, while storage barely gets discussed. This is a critical oversight, as SQL Server 2025 places fundamentally different demands on the storage layer than any previous SQL Server release.

The business case for Everpure is performance headroom and capacity efficiency at the same time. FlashArray//XL provides the I/O density to absorb mixed vector and transactional workloads without overprovisioning. Inline data reduction offsets the tablespace growth from vector embeddings, keeping storage costs flat even as data volumes increase. And Evergreen Architecture removes planned downtime from the equation entirely, so SQL Server modernization stops being a periodic disruption and becomes something that happens continuously in the background. The performance point alone justifies the conversation, and the operational continuity is what closes it.

Customers across industries are unleashing the power of their SQL Server data with help from Everpure. For example, [Dupaco Community Credit Union's](#) lean IT team struggled with legacy storage that couldn't deliver real-time SQL Server reporting. Backup processes took six to eight hours nightly, and the platform lacked modern features. With 30% annual data growth across 23 branches, the team needed scalable infrastructure without expanding headcount or budget significantly.

Operational gains with Everpure

50%

improvement in backup  
window time compared to  
previous storage system

Zero

forklift upgrades with  
Evergreen Architecture

Major

TCO reduction  
over four years

For organizations upgrading to SQL Server 2025, Everpure delivers the storage foundation required to modernize without disruption.

Additional resources

- Learn more about [Everpure solutions for SQL Server](#).
- Review the playbook [for mission-critical SQL Server workloads](#).
- Read the [blog about T-SQL snapshot backups](#).

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