



Microsoft SQL Server on HPE GreenLake for Storage

Cloud based management with the safety and performance of on-premises data and applications



Get the highest levels of performance and guaranteed availability up to 100% for your business critical databases along with a cloud operating experience

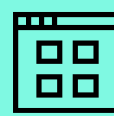
HPE GreenLake for Storage provides a cloud operating experience for every workload.



Simplify operations with cloud agility—HPE GreenLake for Storage is a cloud-based storage-as-a-service platform that shifts day-to-day administration from infrastructure-centric to app-centric



Consume resources as a service—Data storage and other equipment can be purchased as a service for more optimal resource provisioning, the shifting of fixed CAPEX to flexible OPEX, and speeding solution time to value



Run any app without compromise—Infrastructure can be deployed and managed in a solution-centric way, with workload-specific configuration, ability to deploy in terms of service levels, and the select availability of workload deployment templates

For over the past 30 years, Microsoft SQL Server has evolved and innovated to become the leading business database¹, as well as the top business workload used by HPE Storage customers. And with SQL Server 2022 it continues this trend—now as the most Azure-enabled release yet, with continued advances in performance, security, and availability.

¹ Worldwide Database Management Systems Software Market

Hewlett Packard Enterprise delivers valuable data storage solutions for SQL Server and other key Microsoft business products, and stands out from the competition with unmatched availability, performance, and choice. Specifically, HPE Storage solutions for SQL Server can achieve 100% guaranteed availability,² and leading performance up to 4x faster than earlier-generation systems³ through the latest All-NVMe system technologies. In addition, HPE has the broadest solution portfolio from entry-level to mission-critical databases, plus the ability to provide it all as a pay-as-you-go* HPE GreenLake service.



How HPE GreenLake for Storage addresses key SQL Server challenges

Growing enterprise data continues to drive the need for more capacity, easier manageability, and increased system performance. However, many companies are limited in terms of data center resources, expertise, and budget.

Specific challenges around SQL Server include end-of-support deadlines and aging hardware that isn't delivering the necessary levels of database performance.

HPE GreenLake for Storage is a cloud-based storage-as-a-service platform that simplifies the set-up, configuration and administration of infrastructure for SQL Server, enabling a faster refresh of aging environments. It enables the consumption of infrastructure as a service, aligning with modern managed database as a service alternatives. And it provides database set-up optimizations that are easy to select, and don't require specific expertise or ongoing tuning.

Key components of SQL Server on HPE Storage

SQL Server 2022 on HPE Storage solutions provide a range of offerings, delivering levels of availability, performance, and functionality to meet any requirement and budget. The solutions combine SQL Server optimized infrastructure and enablement, now with cloud-based infrastructure management:

- HPE GreenLake for Storage platform
- HPE GreenLake for Block Storage service
- Additional offerings including those for application-consistent data protection and cloud-based disaster recovery
- HPE infrastructure products including HPE Alletra Storage arrays, HPE ProLiant Compute and HPE Aruba Networking
- Microsoft Windows Server 2022
- Microsoft SQL Server 2022

The offering can be purchased as an infrastructure-as-a-service solution, providing a pay-per-use* model for on-premises products. Currently O/S and database software is bring-your-own licensed.

HPE also provides solution guidance in the form of technical white papers, solution bills of materials, training, enablement, collateral, and communications.

² HPE Alletra and HPE Primera 100% availability guarantee.

³ Average disk read response time 3.8x faster with All-NVMe HPE Alletra 9080 versus HPE 3PAR 9450 based on internal HPE performance testing.

* May be subject to minimums or reserve capacity may apply

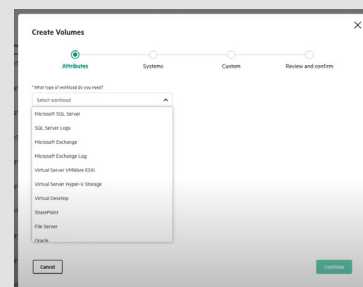


Key benefits of HPE Storage solutions for SQL Server

HPE Storage solutions for SQL Server provide benefits for the widest range of customers and uses, from departmental deployments in mid-sized enterprises up to the largest, most mission-critical enterprise environments. These on-premises solutions ensure the hands-on control of organizational data and applications for compliance, meeting service levels and achieving peace of mind. Key benefits include:

- Setup profiles and design features that speed installation and provide a cloud management experience
- Flash-performance that speeds IOPS, increases transactions, and improves user experience
- All-NVMe systems that deliver almost 4x performance versus earlier-generation storage systems⁴
- Optimal use of storage infrastructure that reduces cost per GB while achieving service-level objectives

No specialized storage expertise is required with “Intent-based Provisioning”—SQL Server DBAs can now directly create workload-optimized data storage just by choosing the number and size of volumes. The configuration of complex settings such as data efficiency and volume placement happens automatically based on workload needs and real-time system headroom.



SQL Server 2022—Most cloud connected yet

SQL Server 2022 is the most Azure-enabled version, with a number of key cloud-empowered features such as Azure analytics capabilities that connect with on-prem data, and bi-directional HA/DR with Azure SQL. This, plus continued performance and security innovations and new as-a-service consumption models, are expected to make this version especially appealing to IT teams, driving the on-premises refresh of their most important transactional and analytical data.

Some of the most anticipated features:

- **Azure Synapse Link for SQL**—Near real-time analytics using hybrid cloud-based processing
- **Microsoft Purview integration**—Unified data governance and management across cloud-based and on-premises data sets
- **Ledger**—New technology that brings blockchains to relational databases
- **Linked Azure SQL Managed Instance**—Bi-directional disaster recovery protection for SQL Server Managed Instance, the evergreen Azure-connected version of SQL Server (coming after GA)

⁴ Average disk read response time 3.8x faster with All-NVMe HPE Alletra 9080 versus HPE 3PAR 9450 based on internal HPE performance testing.



Get started

Microsoft SQL Server 2022 with HPE Storage solutions is available today for a wide range of organizational sizes and application requirements. These solutions deliver superior price/performance for entry-level needs, reduce latency for demanding enterprise applications, and ensure uninterrupted operations for mission-critical environments. The solutions all include published technical guidance available online through hpe.com websites.

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