

MICROSOFT SQL SERVER 2019 ON HPE MSA GEN6 STORAGE

Simple and affordable next-generation storage for SQL Server

SQL Server on HPE MSA Gen6 arrays offers small to medium-sized businesses high-performance storage with these key benefits:

- Higher flash-performance for lower latency, more transactions, and improved user experience
- AI-enabled predictive analytics for more uptime for important databases
- Automated tiering for hands-off operations and better performance and resource utilization
- Design features to speed setup and provide a cloud-like experience

HPE MSA Gen6 storage delivers new functionality, simplified management, and cost efficiency for Microsoft SQL Server



Organizations need reliable and affordable shared storage for their production databases, in addition to related backup and disaster recovery data. This is true for large corporations as well as small to medium-sized businesses. But the need for excellent price/performance on a tight budget is especially true for smaller enterprises, for departmental database use, and for remote and branch office needs.

HPE Modular Smart Array (MSA) storage has been known for more than a decade for performance that made application acceleration possible on even a modest IT budget. Whether an IT generalist is looking for the most affordable performance boost, or a database specialist needs an optimized platform for SQL Server, the new HPE MSA Gen6 Storage is a platform that lets IT

teams accomplish more for less. This new generation of HPE MSA Storage delivers valuable new areas of functionality, more intelligent management, and new ways to save money versus other infrastructure approaches such as local disk, HCI, or cloud.

PERFORMANCE, AVAILABILITY, AND COST EFFICIENCY FOR ENTRY-LEVEL SQL SERVER ON-PREMISES

There have been numerous challenges in managing SQL Server environments such as rapidly growing transaction loads, the need to ensure high availability for increasingly mission-critical databases, and

Solution brief

hardware sprawl that increases management costs. The new HPE MSA addresses these challenges with a new architecture, new ASIC, new chipsets, and new features including health monitoring. The boost delivered to performance will translate directly into more transactions for your SQL Server databases, the ability to host more applications within Hyper-V VMs, and an improved ability to consolidate multiple Microsoft workloads onto a single storage array. HPE has demonstrated a 45% increase in performance from HPE MSA Gen5 to HPE MSA Gen6 storage.¹

Other key areas of improvement are greater fault tolerance, advanced RAID protection, and the Health Check tool, which will help ensure your SQL Server database and applications remain up and available.



HPE MSA Gen6 Storage

¹ Performance improvement documented in [product announcement](#), September 8, 2020

² Validated through internal testing at HPE Labs, 2020

³ Internal HPE analysis. Customers ignoring alerts, firmware issues, and best practices violations account for 76% of HPE Pointnext Services calls for HPE MSA. These issues would be proactively identified by using the HPE MSA Health Check tool.

Microsoft SQL Server

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An economic value of the enhanced HPE MSA storage array is increased operational efficiency. Already designed to be an affordable storage platform, now with the enhanced onboard controller-based data protection and hands-free capabilities, it can provide more effective storage capacity and easier management while delivering more flash-enabled performance than in the past.

KEY COMPONENTS OF SQL SERVER ON HPE MSA STORAGE

The Microsoft SQL Server 2019 with HPE MSA Gen6 Storage solution is targeted to provide a cost-effective storage platform for entry-level and departmental SQL Server database environments.

The solution combines the infrastructure elements needed to run the SQL Server environment, and includes:

- HPE MSA Gen6 Storage array (typically performance-oriented model 2060)
- HPE ProLiant Gen10 server (typically DL360)
- Networking (8/16 Gb Fibre Channel, 6/12 Gb SAS, 1/10GbE iSCSI, 1/10GBASE-T iSCSI)
- Microsoft Windows Server 2019
- Microsoft SQL Server 2019

In addition, HPE provides technical implementation guidance in the form of published best practice white papers, performance white papers, training and enablement for resellers, and related collateral, communication, and community activities.

THE NEXT GENERATION OF THE HPE MODULAR SMART ARRAY

The HPE MSA Gen 6 platform provides small to medium enterprises a price/performance-optimized hybrid flash storage array. It also serves as an ideal platform for departmental use or for remote and branch offices within large enterprises. HPE MSA Gen 6 provides

a reliable, simple, and low-cost storage solution that can scale with growing performance and capacity needs.

Key features of the storage array include:

- **Hands-free tiering:** Boosts performance 2 to 4x compared to hard disk drive (HDD) only configurations
- **HPE MSA Data Protection Plus (HPE MSA DP+):** Advanced RAID protection eliminates idle spares, improves system performance, and speeds rebuild times by 25x²
- **Improved HPE MSA Health Check tool:** Eliminates 76% of support calls³

APPLY INTELLIGENCE ACROSS ALL YOUR DATA WITH SQL SERVER 2019

SQL Server 2019 lets you query and analyze your data, whether structured or unstructured, with industry-leading performance and security. Leverage your familiarity and expertise with SQL Server to gain new benefits:

- **Analyze every type of data:** Query across relational, non-relational, structured, and unstructured data, using SQL Server 2019 with Apache Spark built-in
- **Choose your language and platform:** Flexibility to use the language and platform of your choice with open source support, including Linux[®] containers with Kubernetes
- **Rely on industry-leading performance:** Breakthrough scalability and performance without application changes

GET STARTED

The Microsoft SQL Server 2019 with HPE MSA Gen6 Storage solution is available today. It delivers new functionality, simplified management, and cost efficiency for SQL Server. The solution includes published technical guidance available online through [HPE.com](https://www.hpe.com) websites.

LEARN MORE AT
[hpe.com/Storage/Microsoft](https://www.hpe.com/Storage/Microsoft)

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