

Accelerate Microsoft SQL Server with HPE entry storage solution

HPE MSA 2050 and 2052 storage solutions for Microsoft SQL Server environments

Microsoft SQL Server deployment challenges

1. Rapidly growing SQL Server online transactions require efficient data storage infrastructure
2. Mission-critical databases require resiliency and high availability
3. Hardware sprawl and additional management costs
4. Ever-growing data requires flexible data management solution

Microsoft SQL Server infrastructure

Microsoft® SQL Server 2016 enables customers with industry-leading OLTP solution, data protection capability with Always Encrypted feature, ability to analyze operational data using SQL Server R Services, and capability to build mission-critical applications both on-premises or hybrid cloud. In order to take advantage of these capabilities, and further enhance SQL Server transactions, customers need to ensure to deploy resilient and flexible storage solution.

Many organizations with SQL Server infrastructure typically run number of SQL Server installations. This makes data management and governance challenging, and results in increased hardware and management costs and challenges to maintain business continuity.

In order to avoid extra budget for personnel, focused only on SQL Server, data storage solutions need to be simple and low maintenance. As your business grows, you need to be able to have a flexible solution that is scalable, high performing, and doesn't require costly maintenance. All flash storage

solutions accelerate SQL Server applications and provide the desired IOPS latency and bandwidth, necessary for mission-critical applications. SMBs need to be able to have the flexibility and deploy applications on hybrid array and further deploy these applications on an all-flash array as their database management needs grow. You need to have an HA solution to meet common SQL Server challenges such as inability to rapidly process data queries or meet demand for HA and technology consolidation.

Virtualizing SQL Server increases utilization of your data management infrastructure and in turn, increases the ROI. From a database perspective, there is no difference whether running SQL Server on a physical instance or as a virtual machine. However, virtualization introduces challenges such as virtual machine sprawl and inability for any of the solution components to meet the flexibility and environment growth needs.

Whether you run a virtualized or a physical instance of SQL Server environment, ensuring that you have a resilient and flexible storage solution is the most important step.



HPE MSA 2050 and 2052 key benefits

1. Affordable

200,000+ IOPS for affordable application acceleration

- Flexible base model delivers increased accelerated performance than previous generation for the same price.
- Save on hybrid flash model with all-inclusive software and 1.6 TB of solid-state drive (SSD) capacity included.

2. Resilient

Keep your business running with expanded data protection features

- New virtualized snapshot technology makes data protection and instant recovery a snap.
- Remote replication with FC and iSCSI supports affordable disaster recovery.

3. Simple

Hands-free data services with no experience required

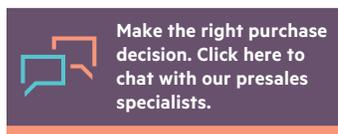
- Easy to install, easy to use, easy to maintain—no storage expertise necessary.
- Automated tiering dynamically responds to workload changes, so you don't have to.

4. Flexible

Grow flexibly now and into the future

- Data-in-place upgrades protect drive investments and eliminates data migrations.
- With any combination of SSD, enterprise, or midline SAS drives, start small and scale as needed.

¹ IDC WW Quarterly Enterprise Storage Systems Tracker, 4Q16, based on vendor revenues.



Sign up for updates

Serious flash storage. Don't let the simplicity and low cost fool you.



200,000+ IOPS for affordable app acceleration

Flexible base model delivers more performance than previous generation for the same price. Customer can save with HPE MSA 2052 with all-inclusive software and 1.6 TB of SSD capacity is included.



Advanced data services with no experience required

It is easy to install, easy to use, easy to maintain—no storage expertise necessary. Automated tiering dynamically responds to workload changes, so you don't have to.



Keep your business running with expanded data protection features

New virtualized snapshot technology makes data protection and instant recovery a snap. Remote replication with FC and iSCSI supports affordable disaster recovery.



Grow flexibly now and into the future

Data-in-place upgrades protect drive investments and eliminate data migrations. Customers can start small and scale as needed with any combination of SSD, Enterprise, or Midline SAS drives.



Figure 1. HPE MSA 2050/2052 Storage

HPE MSA Storage family provides simple, affordable data storage solutions for Microsoft SQL Server workloads that meet the performance and availability needs. See Figure 1.

With over 500,000 units deployed worldwide, HPE MSA is the leading entry Fibre Channel (FC) SAN platform for SMB customers.¹ Take advantage of the fifth generation of HPE MSA storage solution with the familiar HPE MSA manageability and simplicity.

Hewlett Packard Enterprise enables SMBs with the leading storage solution that supports their growing IT needs. HPE MSA 2050 is a flexible base model and flash ready. HPE MSA 2052 is a hybrid flash model with 1.6 TB flash included. Accelerate your application, and simplify and deploy your infrastructure in such a way that it allows for future growth without complexity of hardware sprawl and additional cost.

HPE MSA 2050 systems offer new preconfigured dual controller systems for small form factor or large form factor systems with host interconnect support for 16 Gb FC, 1 Gb or 10 Gb iSCSI, or 12 Gb SAS.

HPE MSA 2050 also comes as a preconfigured hybrid flash system with Network Equipment Building System (NEBS) and DC power configurations.

HPE MSA 2050 and 2052 are ideal for supporting virtualized and physical instances for Microsoft SQL Server workloads. These entry storage solutions provide efficiency for performance-intensive databases in addition to productivity apps as well as solutions where sequential performance is a key requirement.

Winning data storage solution for your SQL Server management

Whether you need budget—optimized, flexible model, or performance-optimized solution, HPE MSA SAN Storage family provides affordable, resilient, simple, and flexible data storage solution for your Microsoft SQL infrastructure.

HPE MSA is designed for and integrates well within HPE ProLiant server ecosystem. HPE ProLiant servers provide one of the industry's most comprehensive built-in management tools—helping to increase administrator productivity and system uptime. HPE ProLiant Gen10 servers provide a rich set of capabilities that accelerate application performance, simplify server operations, improve energy efficiency, and streamline the support experience.

Learn more at
hpe.com/storage/msa

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