



HPE 3PAR Operating System Software Suite

Effortless storage from the start

HPE 3PAR StoreServ Storage: Agile tier 1 storage capabilities from the midrange to the enterprise

As an organization that constantly makes leaps and strides toward growth, you've seen firsthand what it means to maintain a perfect balance between managing large and increasing data volumes, unpredictable application workloads, cost efficiency, and flexibility to meet changing business demands. And while you juggle these multiple facets within your business, you also consider advancements and changes on the outside that can deeply impact what goes on inside your business.

HPE 3PAR StoreServ Storage is an easy-to-deploy, affordable, scalable, and flash optimized system designed from the ground up to meet fluctuating and mixed workload demands. With efficient, autonomic, and bulletproof capabilities and a unique, multi-node-capable architecture, HPE 3PAR StoreServ Storage provides affordable scalability to meet your application demands and support business growth. HPE 3PAR StoreServ Storage prepares you for what's next by supporting your data center, regardless of what your future holds—including server virtualization, an infrastructure refresh, or simplifying storage to more efficiently handle rapid data growth.

The software foundation for HPE 3PAR StoreServ Storage

The HPE 3PAR Operating System Software Suite provides the software foundation for HPE 3PAR StoreServ Storage, giving you everything you need to get up and running quickly and efficiently. With support for the enterprise-class, tier 1 storage features that are available across the entire HPE 3PAR StoreServ platform, this foundational software suite gives you the simplicity, efficiency, and resiliency you need to accelerate new application deployments and support server virtualization, the cloud, ITaaS, or whatever else your future may hold.

As part of the HPE 3PAR Operating System Software Suite, HPE 3PAR Operating System Software comes preinstalled on HPE 3PAR StoreServ Storage systems and includes a collection of advanced internal virtualization capabilities that increases storage efficiency and reduces administration time.

HPE 3PAR StoreServ and the HPE 3PAR OS are optimized for flash, addressing the four flash design requirements for storage: performance acceleration, efficiency optimization, data mobility, and system resiliency.

Key features and benefits

Simple to install, own, and upgrade

- Autonomic groups and Rapid Provisioning get you up and running in minutes
- Simple management via HPE 3PAR StoreServ Management Console
- Gather and track historical storage system information via a flexible, intuitive, Web-based, capacity management tool—HPE 3PAR System Reporter
- Online import makes upgrading from HPE EVA, EMC Storage, HDS Storage, or IBM Storage effortless¹
- Adaptive flash cache automatically reduces application response time for read intensive I/O workloads and improves write throughput in a mixed workload environment
- VMware® Virtual Volumes (VVols) integration enables simple, granular VM level control and disaster recovery

Start thin, get thin, stay thin, and redefine thin

- Reduce storage capacity requirements by as much as 75 percent—guaranteed²
- “Thin” legacy storage to reduce technology refresh CAPEX
- Preserve high-capacity utilization levels over time
- Inline hardware assisted deduplication and zero detection bring the cost of flash down, to be at parity with performance HDD based storage solutions

Enterprise-class data persistence, resilience, and security

- Persistent technologies deliver high availability and tier 1 resiliency
- Maintain service levels in the virtual data center
- Deliver customized security features
- Network simplification and security offered with iSCSI VLAN tagging

The HPE 3PAR StoreServ Management Console simplifies administration through a unified, point-and-click interface that supports all HPE 3PAR StoreServ Storage models, making management effortless. Rich instrumentation combined with robust and customizable reporting capabilities reduces the need for add-on software tools and consulting services related to diagnosis and troubleshooting. Open administration support is provided via simple network management protocol (SNMP) and storage management initiative specification (SMI-S), and the recently added Web Services API.

¹ Supports EMC VMAX, EMC VNX, EMC CLARiiON CX4, Hitachi Data Systems (HDS) TagmaStore Network Storage Controller (NSC), Universal Storage Platform (USP), Virtual Storage Platform (VSP) and IBM XIV Gen 2 and IBM XIV Gen 3 Storage Systems

² As compared to your legacy storage array. See HPE 3PAR Get Thinner Guarantee Program hpe.com/storage/getthinner programs for more details.

Incredibly simple to install, own, and upgrade

HPE 3PAR StoreServ Storage leads the industry in providing array management features that remove the layers of complexity that typically weigh down storage administration. Simplicity saves you money, but it must be there from the start. As part of the HPE 3PAR Operating System Software Suite, the following software gets you up and running quickly, makes management incredibly simple, and provides effortless upgrades:

- **HPE 3PAR Rapid Provisioning:** Rapid Provisioning eliminates array planning by delivering instant, application-tailored provisioning through the highly virtualized HPE 3PAR StoreServ architecture. Provisioning is managed intelligently and autonomically, while system-wide data striping provides high and predictable service levels for all workload types.
- **HPE 3PAR Autonomic Groups:** Autonomic Groups is a feature designed to simplify storage provisioning for clustered and virtual server environments. It gives you the flexibility to create host, volume, and domain groups to further automate and expedite storage provisioning, both now and in the future. Three clicks and 60 seconds are all you need to fully create and provision multiple volumes to multiple servers. All of these volumes are reconfigurable in just seconds, without disruption and without compromise. This greatly lessens the chance of human error by reducing manual repetition of tedious commands, making the provisioning process simpler and more reliable.
- **HPE 3PAR Host Explorer:** Host Explorer is an autonomic storage management tool that establishes secure communication channels between storage and hosts. Host Explorer uses this connection to automate host discovery and the collection of detailed host configuration information that is critical to speeding storage provisioning and simplifying maintenance. Host Explorer automatically and securely communicates host information such as Fibre Channel Worldwide Name (WWN) and host multipath data to the HPE 3PAR StoreServ Storage to reduce manual administration.
- **HPE 3PAR System Reporter:** System Reporter tracks the performance and capacity utilization data for HPE 3PAR StoreServ Storage systems, regardless of their geographical location. System Reporter allows a broad range of report customizations and groupings for service level agreements (SLAs) and chargeback support. HPE 3PAR System Reporter software provides detailed, information-rich historical reports and both tabular and pictorial charting for ease of analysis, this provides information can help optimize and plan future configuration changes to improve infrastructure investments.
- **HPE 3PAR Scheduler:** Scheduler also helps automate storage management, reduce administration time, and decrease the chance of administrative error. Scheduler does this by giving users full control over the creation and deletion of virtual copy snapshots—a process that is completely automated with HPE 3PAR StoreServ Storage.
- **HPE 3PAR Online Import:** Online Import allows existing HPE EVA Storage, EMC Storage, HDS Storage, IBM Storage customers to move data quickly and easily to HPE 3PAR StoreServ Storage. HPE 3PAR Online Import saves CAPEX on your technology refresh because it uses the HPE 3PAR Gen5 Thin Express ASIC to power the simple and rapid conversion of inefficient, “fat” volumes on your legacy storage to more efficient, higher-utilization “thin” volumes on the HPE 3PAR StoreServ Storage. This process couldn’t be simpler, and doesn’t require complex planning or depend on extra tools. HPE 3PAR StoreServ Storage is everything you could want in a next generation of storage system—and more.

- HPE 3PAR Web Services API: Web Services API delivers a well-defined application programming interface for implementing durable automation of storage management tasks with HPE 3PAR StoreServ Storage systems. This enables open administration support you can use for incorporating your storage infrastructure into your platform for end-to-end automation of your service delivery and management. The Web Services API implementation is based on RESTful Web API service using HTTPS, principles of REST, and data structures represented with JavaScript Object Notation (JSON).
- HPE 3PAR Autonomic Rebalance: Autonomic Rebalance optimizes the use of future capacity expansions without requiring administrator intervention. It analyzes how volumes on the HPE 3PAR StoreServ system are using physical disk space and makes intelligent, autonomic adjustments to ensure optimal volume distribution when new hardware is added to the system.
- HPE 3PAR Adaptive Flash Cache: Adaptive Flash Cache provides on-board DRAM cache extensions by leveraging HPE 3PAR StoreServ best in class virtualization technologies. This functionality enables a portion of SSD capacity to augment the array's primary cache, reducing application response time for read intensive I/O workloads and increasing write throughput in mixed workloads.
- HPE 3PAR Express Writes: Express Writes acceleration feature is built in to HPE 3PAR OS version 3.2.1 and later. It optimizes CPU utilization and depending on workload, delivers greater throughput, up to 30 percent more IOPS, and up to 20 percent reduced latency.³ All currently supported HPE 3PAR StoreServ Storage HBAs and hosts support the HPE 3PAR Express Writes, and its benefits extend to both spinning drives and flash-based media.
- HPE 3PAR Adaptive Sparing : Adaptive Sparing, leverages HPE 3PAR StoreServ's sparing approach to improve the performance and endurance of flash. Unlike other storage arrays wherein entire drive is used as 'hot spare', HPE 3PAR StoreServ's architecture allows the HPE 3PAR StoreServ to reserve a small amount of 'spare' space in each drive. HPE 3PAR's patented Adaptive Sparing technology takes this spare space and hands it back to the drive's firmware to increase the internal capacity used by the drive for housekeeping tasks. This improves SSD endurance—up to 5x over the drive's standalone endurance capability—along with increasing write performance.

Start thin, get thin, stay thin, and redefine thin

HPE 3PAR StoreServ Storage enables you to meet your performance and service-level objectives with as much as 75 percent less capacity due to superior Thin Provisioning technologies.⁴ Save on the cost of a storage technology refresh and then maximize storage ROI over time by keeping incremental purchases, administration, and operating costs to a minimum. In fact, the HPE Get Thinner Guarantee promises new HPE 3PAR StoreServ customers as much as 75 percent reduction in capacity requirements by replacing legacy storage with HPE 3PAR StoreServ Storage—guaranteed.⁵

HPE 3PAR StoreServ Storage makes these savings possible by offering one of the industry's most comprehensive approaches to thin storage. This approach is built on thin technologies that combine both software and hardware innovations unique to HPE 3PAR StoreServ Storage that enable your organization to not only start thin, but to get thin, stay thin, and even redefine thin.

Start thin: HPE 3PAR Thin Provisioning Software

HPE 3PAR Thin Provisioning Software improves storage system efficiency and optimizes capacity utilization system-wide. It does this by addressing the problem of capacity over-allocation through eliminating the need to dedicate storage capacity up-front and on a per-application basis.

Since its introduction, Thin Provisioning has given customers the ability to meet green IT targets and reduce capacity purchases. Thin provisioning makes this possible by cutting SAN costs, floor space requirements, and energy expenses. No more dedicating resources for each application or service level. No more paying to power, house, and cool disks that you may never need.

³ Based on a random, 100 percent write workload with an 8k Block size.

⁴ As compared to your legacy storage array. See HPE 3PAR Get Thinner Guarantee hpe.com/storage/getthinner for more details.

⁵ The above is intended to highlight certain aspects of our Get Thinner Guarantee and does not contain the full terms, conditions, limitations, definitions, and other provisions ("Terms") of the Get Thinner Guarantee. The Terms shall be contained in a written Get Thinner Guarantee Terms and Conditions which shall take precedence over the above. Qualification for our Get Thinner Guarantee is subject to your acceptance of a Get Thinner Guarantee Terms and Conditions and your satisfaction of those Terms.

Get thin: HPE 3PAR Thin Conversion Software

In an ideal world, all your storage would start thin using HPE 3PAR Thin Provisioning Software. But what if starting thin has not been an option because you've been limited to legacy arrays from a traditional storage vendor? Or what if you've already created volumes on an HPE 3PAR Storage System without the use of Thin Provisioning?

It's never too late to become more efficient. When combined with HPE 3PAR Thin Conversion Software, the zero-detection mechanism built into the HPE 3PAR Gen5 Thin Express ASIC gives HPE 3PAR StoreServ Storage the power to remove allocated but unused space without impacting performance.

HPE 3PAR Thin Conversion Software extends the benefits of Thin Provisioning to your existing storage volumes for "fat-to-thin" conversions compatible with any host volume. HPE 3PAR StoreServ Storage is the only platform in the industry to offer this built-in, hardware-accelerated, fat-to-thin conversion capability. This reduces as much as 75 percent of your legacy capacity by allowing the simple and rapid conversion of fully provisioned storage to thin provisioned storage.⁶

Stay thin: HPE 3PAR Thin Persistence and Thin Copy Reclamation Software

To realize the ultimate efficiency and cost-saving benefits of starting thin or getting thin, you also need to stay thin. An industry first, HPE 3PAR Thin Persistence Software ensures that thin volumes on the HPE 3PAR StoreServ Storage stay as lean and efficient as possible. Thin Persistence accomplishes this by reclaiming unused space associated with deleted data within system storage volumes—simply, quickly, and without disruption.

Thin Copy Reclamation is similar to Thin Persistence but instead of applying the space reclamation for thin volumes, this software reclaims unused space from thin copies (virtual copy snapshots and remote copies).

Redefine thin: HPE 3PAR Thin Deduplication Software and Thin Clones Software

To capitalize the benefits of flash media, it is imperative to keep the cost of flash solutions down. To achieve this objective and as an extension of the existing Thin Technologies feature, HPE 3PAR StoreServ offers a unique solution—HPE 3PAR Thin Deduplication. Thin Deduplication avoids storage of duplicate data thereby positively impacting the cost of the flash solution. HPE 3PAR Thin Deduplication is completely inline, and is hardware assisted which helps to bring the overall cost of flash solutions down, at par with performance based drives. Not only this, HPE 3PAR Thin Deduplication is array based functionality and can be turned ON and OFF for individual applications.

HPE 3PAR Thin Clones acts as an extension of Thin Deduplication for server virtualization environments providing host—assisted deduplication that produces non duplicative VM clones for Microsoft® Hyper-V and VMware ESXi.

On average, with thin technologies, HPE 3PAR StoreServ Storage customers can purchase 60 percent less capacity than would have been necessary with traditional storage arrays. Thin Persistence and Thin Copy Reclamation can improve this average capacity savings by another 10 percent resulting in a total savings of more than 70 percent. All volumes and snapshots stay thin to help sustain green IT targets, defer the cost of purchasing raw capacity to handle new data growth, and keep costs down—without having to purchase special host-based software or retaining professional services.

⁶ The above is intended to highlight certain aspects of our Get Thinner Guarantee and does not contain the full terms, conditions, limitations, definitions, and other provisions ("Terms") of the Get Thinner Guarantee. The Terms shall be contained in a written Get Thinner Guarantee Terms and Conditions which shall take precedence over the above. Qualification for our Get Thinner Guarantee is subject to your acceptance of a Get Thinner Guarantee Terms and Conditions and your satisfaction of those Terms.

Enterprise-class data persistence, resilience, and security

The HPE 3PAR Operating System Software Suite offers several data resilience and security features designed to deliver tier 1 availability to the midrange.

- **HPE 3PAR Persistent Cache:** Persistent Cache is a resiliency feature built in to the HPE 3PAR OS that prevents data availability from being impacted by unplanned component failures—a key requirement for maintaining service levels in the virtual data center. Persistent Cache eliminates the substantial performance penalties associated with traditional arrays and “write-through” mode so that HPE 3PAR StoreServ Storage can maintain required service levels even in the event of a cache or controller node failure. Persistent Cache leverages the array’s unique design to preserve write caching by rapidly re-mirroring the cache to other nodes in the cluster in the event of a failure. Persistent Cache is supported on all quad-node and larger HPE 3PAR StoreServ models, making HPE 3PAR StoreServ the only vendor to incorporate this industry-leading service level protection capability into midrange as well as enterprise arrays.
- **HPE 3PAR Persistent Ports:** Persistent Ports makes software upgrades on HPE 3PAR StoreServ Storage systems and attached HBAs non-disruptive, allowing them to take place online without reliance on multipathing software and without the need to initiate failover. HPE 3PAR StoreServ is the first storage array to offer this tier 1 resiliency feature for the entire midrange. Persistent Ports also autonomically fails over a front-end controller node port that experiences physical connection loss from a cable pull or a failed switch. This unique capability improves resiliency in the midrange as well as in the enterprise.
- **HPE 3PAR Persistent Checksum:** Persistent Checksum is a security feature built in to the HPE 3PAR OS that ensures data integrity for end to end data protection via a T10 Data Integrity Field (DIF). Persistent Checksum addresses media and transmission errors that can be caused by any component in the I/O stack and provides additional protection above CRC transmissions for FC and iSCSI protocols. Persistent Checksum is application independent and offers elaborate host OS support. When using supported HBAs, T10-DIF⁷ tags are added and verified on HPE 3PAR StoreServ. When using unsupported HBAs, T10-DIF tags are added and verified on the array target ports and back-end HBAs, enabling data protection all the way from the hosts right to the drives.
- **HPE 3PAR Full Copy:** HPE 3PAR Full Copy software flexibly delivers point-in-time (PIT) clones with independent service level parameters so you can share and protect data from almost any application simply and affordably. Full Copy offers rapid resynchronizations with base volumes as needed and is Thin Provisioning-aware for excellent capacity utilization.

⁷ T10-DIF: Industry standard end to end data protection via T10 Data Integrity Field (DIF)

Software suites for HPE 3PAR StoreServ Storage

HPE 3PAR Operating System Software Suite

Required for all new HPE 3PAR StoreServ systems, this foundational software suite gives you everything you need to get up and running quickly and efficiently. Powered by the HPE 3PAR Gen 5 Thin Express ASIC, HPE 3PAR Thin Technologies including HPE 3PAR Thin Provisioning, HPE 3PAR Thin Persistence, HPE 3PAR Thin Conversion and HPE 3PAR Thin Deduplication form the base of this software suite. Performance acceleration is assured by HPE 3PAR Adaptive Flash Cache, which reduce application response times.

Network simplification and security are covered with iSCSI VLAN tagging. Simplified management is offered by the HPE 3PAR StoreServ Management Console, HPE 3PAR Host Explorer. HPE 3PAR System Reporter and HPE 3PARInfo software are designed to track performance and capacity utilization trends for multiple HPE 3PAR StoreServ Systems. Other highlights of this suite include HPE 3PAR Full Copy and autonomic rebalancing capabilities that help optimize the use of future capacity expansions, and support for standard multipathing software for high availability in clustered environments. A one year license for HPE 3PAR Online Import is included to enable migration from HPE EVA, EMC[®], HDS² or IBM[®] Storage systems.

HPE 3PAR Replication Software Suite

This suite bundles HPE 3PAR Virtual Copy with HPE 3PAR Remote Copy software, both also sold separately for all HPE 3PAR StoreServ models. HPE 3PAR Virtual Copy software protects and shares data affordably with rapid recovery using reservation-less, non-duplicative, copy-on-write snapshots. HPE 3PAR Remote Copy offers simple and cost effective data protection for efficient multi-tenant disaster recovery. Also included in this bundle is HPE 3PAR Peer Persistence software which ensures transparent automatic failover over metropolitan distances using Remote Copy Synchronous mode. For HPE 3PAR StoreServ 20000 and 8000 Storage, this Suite also includes Cluster Extension Software, which enables automatic failover across data centers using Remote Copy Asynchronous mode.

Software suites for HPE 3PAR StoreServ Storage (Continued)

HPE 3PAR Data Optimization Software Suite	This software bundle combines HPE 3PAR Dynamic Optimization, HPE 3PAR Adaptive Optimization, HPE 3PAR Priority Optimization and HPE 3PAR Peer Motion software together. HPE 3PAR Dynamic Optimization delivers the required service levels for the lowest possible cost throughout the data lifecycle. HPE 3PAR Adaptive Optimization improves storage utilization by enabling cost-optimized storage tiering. HPE 3PAR Priority Optimization assures service levels with QoS controls for mission-critical applications. HPE 3PAR Peer Motion enables load balancing at will, wherein movement of data and workloads between arrays does not impact applications, users or services. These four software titles bundled in this Suite are also sold separately for all HPE 3PAR StoreServ models. Depending on purchase date, titles included in this suite may vary. Check the HPE 3PAR Software QuickSpecs for complete details.
HPE 3PAR File Persona Software Suite	This software suite enables a rich set of file protocols and an Object Access API (REST) to extend the spectrum of primary storage workloads natively addressed by HPE 3PAR StoreServ Storage Systems with Converged Controllers. With this solution, the architectural benefits of HPE 3PAR StoreServ Storage can be extended to the following use cases: enterprise file sync and share; home directory consolidation; group/corporate shares; and custom cloud applications.
HPE 3PAR Security Software Suite	This software suite bundles HPE 3PAR Virtual Domains and HPE 3PAR Virtual Lock software. With this suite, you can segregate access and deliver robust storage services for different applications and user groups with additional security attached to the retention of storage volumes.
HPE 3PAR Application Software Suite for Microsoft Hyper-V	Protect your Microsoft Hyper-V environment with HPE 3PAR Recovery Manager for Microsoft Hyper-V and the HPE 3PAR VSS Provider software, included in this software bundle.
HPE 3PAR Application Software Suite for Microsoft Exchange	This bundle gives you the essentials for use with Microsoft Exchange, including HPE 3PAR Recovery Manager for Microsoft Exchange and the VSS Provider software.
HPE Recovery Central Manager	This suite bundles everything you need to protect your critical applications running on HPE 3PAR StoreServ Storage. RMC software allows you to create, manage and automate crash-consistent snapshots for any application and app-consistent snapshots for VMware vSphere, Microsoft SQL Server and Oracle ¹⁴ . In addition, RMC allows you to perform flat backups to HPE StoreOnce systems for converged data protection.

¹¹ HPE 3PAR Online Import support for EMC Storage extends to EMC VMAX, EMC VNX and EMC CLARiiON CX4 Storage systems.

¹² HPE 3PAR Online Import support for Hitachi Storage system extends to Hitachi Data Systems (HDS) TagmaStore Network Storage Controller (NSC), Universal Storage Platforms (USP), and Virtual Storage Platforms (VSP) Storage systems.

¹³ HPE 3PAR Online Import support for IBM Storage extends to IBM XiV Gen 2 and IBM XiV Gen 3 systems.

¹⁴ Recovery Manager Central for Oracle (RMC-O) supports RHEL and OEL environments. For Solaris SPARC, IBM AIX and HP-UX environments, use the HPE 3PAR Applications Suite for Oracle.

HPE Technology Services

The support services portfolio will help complement the performance and reliability of the HPE 3PAR StoreServ Storage infrastructure. HPE provides complete, end-to-end lifecycle services for your entire infrastructure—servers, storage, networks, and software. Our services also help you consolidate your support management and whenever necessary, we collaborate with independent software vendors directly. By integrating hardware and software services, we offer you a support experience that is relevant to your business needs.

Advise, transform, and integrate

Navigate through the complexities of storage, backup, archive, disaster recovery and Big Data with advisory, transformation and integration consulting.

Deploy and implement

Access expertise to support deployment, operations, relocation, sanitization and disposal plus improvement-focused education.

Operate and support

Find the level of personalized, proactive and simplified support right for your business.

Note: Specific service availability varies by product.

Optimize your IT investment strategy with new ways to acquire, pay for and use technology, in lock-step with your business and transformation goals.

hpe.com/solutions/hpefinancialservices



Take five minutes to calculate the potential three-year cost savings and ROI you can expect by migrating from your current storage to an HPE 3PAR StoreServ solution. [Click here](#) to go to the HPE Storage Quick ROI Tool.



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HPE Foundation Care

A comprehensive suite hardware and software services aimed to help increase the availability of IT infrastructure.

HPE Proactive Care

An integrated set of reactive and proactive services designed to help you improve the stability and operation of your converged infrastructure to achieve better business outcomes. HPE Proactive Care has been specifically designed to support devices in IT environments, providing enhanced support that covers servers, operating systems, hypervisors, storage, storage area networks (SANs) and networks.

HPE Proactive Care Advanced

This service expands on HPE Proactive Care Service and is designed to help maximize the benefits of IT investments, maintain IT infrastructure stability, achieve business and IT project objectives, reduce operational costs and free IT staff for other priority tasks. An assigned HPE Account Support Manager (ASM) provides personalized technical and operational advice, including HPE best practices gleaned from HPE's broad support experience.

HPE Datacenter Care

HPE's most comprehensive support solution tailored to meet specific data center support requirements. It offers a wide choice of proactive and reactive service levels to cover requirements ranging from the most basic to the most business-critical environments.

HPE Lifecycle Event Services

These services are sold on a per-event basis and include services to help deploy technologies and solutions as well as assessments and other services to help optimize and operate the IT infrastructure

Get connected and get back to business

Unlock all of the benefits of your technology investment by connecting your products to HPE Enterprise. Achieve up to 77% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server, storage and networking products, securely connected to HPE support.

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