Overview

StorMagic

StorMagic SvSAN removes the need for a physical SAN in some of the world's most demanding environments by converting the disk, flash and memory of two servers into a virtual SAN. It meets the needs of typical edge computing deployments such as remote or branch offices and small datacenters that require a small IT footprint.

It is a sweet spot solution for small and medium sized enterprises (SMEs) like retail stores, factories, warehouses, and even wind farms or oil rigs. In all of these deployments, SvSAN enables small hyperconverged clusters with an unrivaled level of simplicity and affordability.

StorMagic SvSAN simplifies storage at the edge by turning the storage in HPE servers into highly available, shared storage. SvSAN is a lightweight virtual SAN solution designed to deliver hyperconverged compute and storage infrastructure with two (or more) low-cost servers. It is uniquely optimized for cost effective, multi-site data management, enabling continuous, high-speed data access for business-critical applications.

SvSAN eliminates the need for physical SANs, eliminates downtime for business critical applications and lowers IT acquisition and operating cost. SMEs and large organizations around the world have already chosen SvSAN to modernize their IT infrastructure.

SvSAN can be deployed with ease and the flexibility to scale up and out to meet changing performance and capacity requirements, without impacting service availability.

The StorMagic solution through HPE Complete drastically improves the manageability of edge sites. With SvSAN, it is as easy to deploy and manage 1,000 highly available sites as it is to manage 1.   Paired with HPE servers, it is possible to create high performing on-site storage, at a surprisingly low price point, that eliminates the threat of unplanned downtime.

StorMagic is available as software purchased through the HPE Complete Program. StorMagic is licensed per node and not per edge site. Each node in an edge site will require a license and support SKU per license.

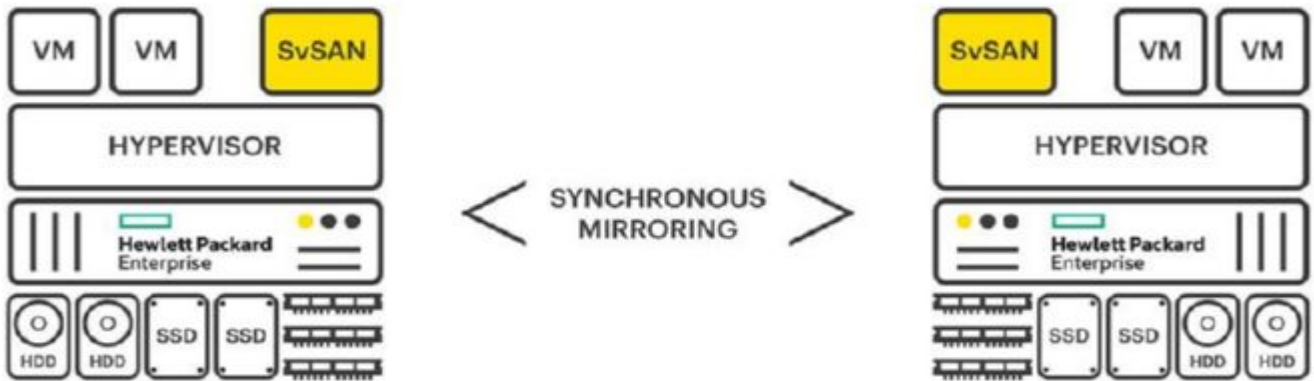**HPE Complete- Resell of Third Party Branded Products**

HPE Complete is a resource enabling the purchase of best in class third party branded products with the added reliability of Hewlett Packard Enterprise's interop assurance for a complete validated solution, all via one HPE purchase order.

Benefits

- One Stop Shop - Purchase complete solutions from HPE that include best in class third party branded products, all on a single HPE purchase order
- Validated solution - Confidence of The HPE interop assurance validation for third party branded products that complement HPE Storage & Server solutions
- Customer Experience - HPE Complete utilizes third-party expertise for installation, support, and warranty of their products. However, HPE Complete will step in to facilitate third-party issue resolution when required to assist in overall customer satisfaction. HPE products that are part of the overall solution are supported per HPE Pointnext services and support purchased
- Unique Value - Minimize risk, complexity and cost when deploying multi-vendor products and technologies into the HPE ecosystem. Many solutions come with custom HPE/Partner configuration and integration guides and tools.

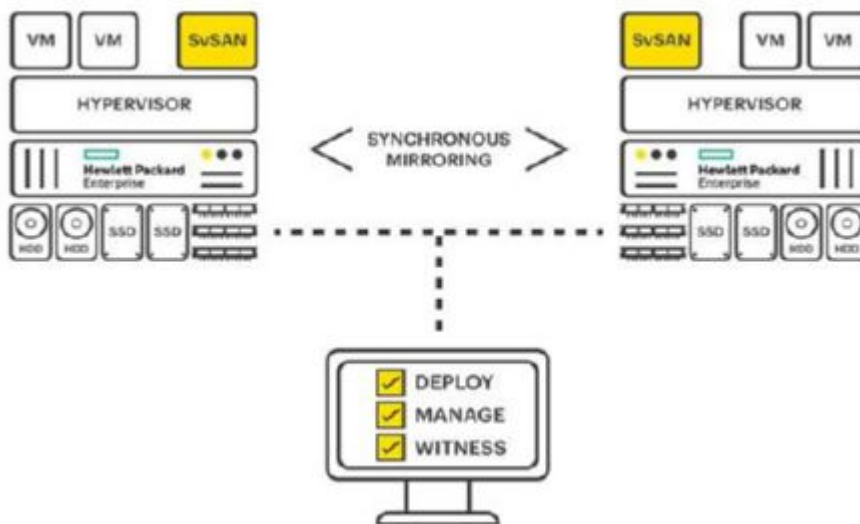For more information please refer **HPE Complete** on HPE.com

Overview

StorMagic Solution Architecture

The StorMagic solution via HPE Complete provides small sites with lightweight highly available storage, delivering 100% uptime for mission critical applications in edge sites, remote and branch offices and small datacenters.

StorMagic SvSAN converts the disk, flash and memory of any two HPE servers into a virtual SAN. Further details on StorMagic with HPE servers can be found at **https://stormagic.com/svsan-with-hpe-solution-brief/**

StorMagic SvSAN cluster on HPE servers

Models

Hewlett Packard Enterprise is making the following StorMagic SKUs available via HPE Complete. StorMagic SKUs are licensed per node, not by SvSAN site. Each license requires an accompanying support SKU.

Description	SKU
StorMagic 2 TB licenses & support	

Overview

Description	SKU
StorMagic 2TB Standard E-LTU	R4P96AAE
StorMagic 2TB Advanced E-LTU	R4P97AAE
StorMagic 2TB Standard 1yr 24x7 Support	R4P98AAE
StorMagic 2TB Standard 3yr 24x7 Support	R4P99AAE
StorMagic 2TB Standard 5yr 24x7 Support	R4Q00AAE
StorMagic 2TB Standard 1yr 24x7 Renewal Support	R4U57AAE
StorMagic 2TB Standard 3yr 24x7 Renewal Support	R4U58AAE
StorMagic 2TB Standard 5yr 24x7 Renewal Support	R4U59AAE
StorMagic 2TB Advanced 1yr 24x7 Support	R4Q01AAE
StorMagic 2TB Advanced 3yr 24x7 Support	R4Q02AAE
StorMagic 2TB Advanced 5yr 24x7 Support	R4Q03AAE
StorMagic 2TB Advanced 1yr 24x7 Renewal Support	R4U60AAE
StorMagic 2TB Advanced 3yr 24x7 Renewal Support	R4U61AAE
StorMagic 2TB Advanced 5yr 24x7 Renewal Support	R4U62AAE

StorMagic 6 TB licenses & support

Description	SKU
StorMagic 6TB Standard E-LTU	R4Q04AAE
StorMagic 6TB Advanced E-LTU	R4Q05AAE
StorMagic 6TB Standard 1yr 24x7 Support	R4Q06AAE
StorMagic 6TB Standard 3yr 24x7 Support	R4Q07AAE
StorMagic 6TB Standard 5yr 24x7 Support	R4Q08AAE
StorMagic 6TB Standard 1yr 24x7 Renewal Support	R4U63AAE
StorMagic 6TB Standard 3yr 24x7 Renewal Support	R4U64AAE
StorMagic 6TB Standard 5yr 24x7 Renewal Support	R4U65AAE
StorMagic 6TB Advanced 1yr 24x7 Support	R4Q09AAE
StorMagic 6TB Advanced 3yr 24x7 Support	R4Q10AAE
StorMagic 6TB Advanced 5yr 24x7 Support	R4Q11AAE
StorMagic 6TB Advanced 1yr 24x7 Renewal Support	R4U66AAE
StorMagic 6TB Advanced 3yr 24x7 Renewal Support	R4U67AAE
StorMagic 6TB Advanced 5yr 24x7 Renewal Support	R4U68AAE

StorMagic 12 TB licenses & support

Description	SKU
StorMagic 12TB Standard E-LTU	R4Q12AAE
StorMagic 12TB Advanced E-LTU	R4Q13AAE
StorMagic 12TB Standard 1yr 24x7 Support	R4Q14AAE
StorMagic 12TB Standard 3yr 24x7 Support	R4Q15AAE
StorMagic 12TB Standard 5yr 24x7 Support	R4Q16AAE
StorMagic 12TB Standard 1yr 24x7 Renewal Support	R4U69AAE
StorMagic 12TB Standard 3yr 24x7 Renewal Support	R4U70AAE
StorMagic 12TB Standard 5yr 24x7 Renewal Support	R4U71AAE
StorMagic 12TB Advanced 1yr 24x7 Support	R4Q17AAE

Description	**SKU**
StorMagic 12TB Advanced 3yr 24x7 Support	R4Q18AAE
StorMagic 12TB Advanced 5yr 24x7 Support	R4Q19AAE

Overview

StorMagic 12TB Advanced 1yr 24x7 Renewal Support	R4U72AAE
StorMagic 12TB Advanced 3yr 24x7 Renewal Support	R4U73AAE
StorMagic 12TB Advanced 5yr 24x7 Renewal Support	R4U74AAE
StorMagic Unlimited TB licenses & support	
StorMagic Unlimited TB Standard E-LTU	R4Q20AAE
StorMagic Unlimited TB Advanced E-LTU	R4Q21AAE
StorMagic Unlimited TB Standard 1yr 24x7 Support	R4Q22AAE
StorMagic Unlimited TB Standard 3yr 24x7 Support	R4Q23AAE
StorMagic Unlimited TB Standard 5yr 24x7 Support	R4Q24AAE
StorMagic Unlimited TB Standard 1yr 24x7 Renewal Support	R4U75AAE
StorMagic Unlimited TB Standard 3yr 24x7 Renewal Support	R4U76AAE
StorMagic Unlimited TB Standard 5yr 24x7 Renewal Support	R4U77AAE
StorMagic Unlimited TB Advanced 1yr 24x7 Support	R4Q25AAE
StorMagic Unlimited TB Advanced 3yr 24x7 Support	R4Q26AAE
StorMagic Unlimited TB Advanced 5yr 24x7 Support	R4Q27AAE
StorMagic Unlimited TB Advanced 1yr 24x7 Renewal Support	R4U78AAE
StorMagic Unlimited TB Advanced 3yr 24x7 Renewal Support	R4U79AAE
StorMagic Unlimited TB Advanced 5yr 24x7 Renewal Support	R4U80AAE

Standard Features

Key Features
Simple

- StorMagic SvSAN utilizes the internal storage of any two HPE servers and creates a virtual environment that runs on any storage type
- It is able to tolerate poor, unreliable networks, eliminates single points of failure and ensures high availability in hard to reach locations
- The software benefits from centralized deployment and management, making it as easy to run 1,000 sites as it is to run 1

Cost Effective

- StorMagic SvSAN eliminates the need for a physical SAN, and it lowers CAPEX as significantly less hardware is required due to SvSAN's lightweight requirements
- SvSAN greatly reduces OPEX through lower power consumption and cooling, requires less maintenance and spare parts and reduces the need for specialist IT staff to always be on-site

Flexible

- SvSAN can be configured precisely to fit a specific environment, eliminating over-provisioning
- StorMagic SvSAN has numerous deployment options:
    - it can be deployed as a 'build-your-own'
    - or pre-configured hyperconverged solution
    - or as a storage-only server SAN

- Easy to scale up and out, as and when required, with minimal disruption and cost

Features required for the Deployment

Features	Standard	Advanced
Synchronous mirroring / high availability	•	•
Stretch / metro clusters	•	•
Volume migration	•	•
VSA restore (VMware only)	•	•
VMware vSphere Storage API (VAAI) support	•	•
Centralized management and monitoring	•	•
Multiple VSA GUI deployment and upgrade	•	•
I/O performance statistics	•	•
Witness	•	•
PowerShell script generation	•	•
Predictive read ahead caching (SSD and memory)	N/A	•
Write back caching (SSD)	N/A	•
Data pinning	N/A	•

There are minimum server configuration requirements for use with the StorMagic software depending on the size of the data set analized. HPE has developed and maintains a HPE Hardware Configuration Guide for StorMagic deployments located at : **https://www.hpe.com/h20195/v2/Getdocument.aspx? docname=a50001084enw**

Service and Support for StorMagic software

Is provided directly from StorMagic. For any support and general queries please email support@stormagic.com. The StorMagic Technical Services team will be responsible for responding, assigning a severity level to the call, and determining the service Severity Level acceptable to the Hewlett Packard Enterprise customer. The support request will be processed by StorMagic in accordance with the Severity Level agreed upon.
Severity levels are detailed in the below document:
https://stormagic.com/pdf/Support_policy_lifecycle.pdf
The support engagement process is detailed in the below document:
https://support.stormagic.com/release_notes/Customer_Support_How_to_Guide.pdf

Warranty - Disclaimer

The services are provided "as is." to the fullest extent permitted by law, except as expressly stated in this agreement, neither StorMagic and its affiliates, suppliers, and distributors make any warranty of any kind, whether express, implied, statutory or otherwise, including warranties of merchantability, fitness for a particular use, or non-infringement. No oral or written information or advice given by StorMagic, its agents, authorized resellers or employees shall create a warranty or in any way increase the scope of this warranty and customer may not rely on any such information or advice. StorMagic does not warrant that the functions contained in any services or software will meet the requirements of customer or that the operation of any such services or software will be uninterrupted or error free. Customer is responsible for maintaining and backing up any file data.

Return Policy for Resellers

StorMagic does not accept licenses returns. Please purchase accurate quantity required to fulfil the customer order.

Configuration Information

As a guide to deployment of the StorMagic solution with HPE Servers, please consult this HPE StorMagic configuration guide: **https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a50001084enw**

For feature differences between Standard and Advanced SvSAN please see:
https://stormagic.com/svsan-with-hpe-solution-brief/

To configure StorMagic solutions through HPE Complete follow these steps (1 through 4):

Step-1: Determine the usable Virtual Storage Appliance (VSA) capacity required for the installation

This is the amount of storage to be mirrored by the end user. Licenses are offered in 2TB, 6TB, 12TB and unlimited TB. A license and accompanying support SKU is required for each VSA.

Step-2: Determine the features required for the deployment

The **Standard Edition** provides all of the features necessary to deliver and manage highly available shared storage, while the **Advanced Edition** includes additional performance-enhancing features, collectively known as Predictive Storage Caching.
The full list of features available in each version is illustrated on Features required for the Deployment table.
Further details about SvSAN's features, capabilities and requirements can be found at
 https://stormagic.com/svsan/features/

Step-3: (Optional) for installations needing a Server deployment

Select any HPE server from this HPE site: **https://www.hpe.com/us/en/servers/rack.html**
Notes:

Please Check the Minimum Server Requirements table on page 5.

For more details please check the Tested and Certified SvSAN HPE Proliant Configurations table on page 6.

Step-4

Step-4a Select the StorMagic Perpetual License based on steps 1 and 2

Each SKU is for a given capacity of data you wish to manage with StorMagic and for the features needed (standard or advanced license). Select the minimum capacity which exceeds the capacity determined in step 1. StorMagic Software Perpetual SKU must include a same capacity Support and Maintenance SKU as listed in step 4b.

Description	SKU
StorMagic 2TB Standard E-LTU	R4P96AAE
StorMagic 2TB Advanced E-LTU	R4P97AAE
StorMagic 6TB Standard E-LTU	R4Q04AAE
StorMagic 6TB Advanced E-LTU	R4Q05AAE
StorMagic 12TB Standard E-LTU	R4Q12AAE
StorMagic 12TB Advanced E-LTU	R4Q13AAE
StorMagic Unlimited TB Standard E-LTU	R4Q20AAE
StorMagic Unlimited TB Advanced E-LTU	R4Q21AAE

Step-4b Select the StorMagic Maintenance and Support to match the license selected in 4a or if renewing existing support select from the bottom of the list

StorMagic 2TB Standard 1yr 24x7 Support	R4P98AAE

Configuration Information

Description	SKU
StorMagic 2TB Standard 3yr 24x7 Support	R4P99AAE
StorMagic 2TB Standard 5yr 24x7 Support	R4Q00AAE
StorMagic 2TB Advanced 1yr 24x7 Support	R4Q01AAE
StorMagic 2TB Advanced 3yr 24x7 Support	R4Q02AAE
StorMagic 2TB Advanced 5yr 24x7 Support	R4Q03AAE
Description	**SKU**
StorMagic 6TB Standard 1yr 24x7 Support	R4Q06AAE
StorMagic 6TB Standard 3yr 24x7 Support	R4Q07AAE
StorMagic 6TB Standard 5yr 24x7 Support	R4Q08AAE
StorMagic 6TB Advanced 1yr 24x7 Support	R4Q09AAE
StorMagic 6TB Advanced 3yr 24x7 Support	R4Q10AAE
StorMagic 6TB Advanced 5yr 24x7 Support	R4Q11AAE
StorMagic 12TB Standard 1yr 24x7 Support	R4Q14AAE
StorMagic 12TB Standard 3yr 24x7 Support	R4Q15AAE
StorMagic 12TB Standard 5yr 24x7 Support	R4Q16AAE
StorMagic 12TB Advanced 1yr 24x7 Support	R4Q17AAE
StorMagic 12TB Advanced 3yr 24x7 Support	R4Q18AAE
StorMagic 12TB Advanced 5yr 24x7 Support	R4Q19AAE
StorMagic Unlimited TB Standard 1yr 24x7 Support	R4Q22AAE
StorMagic Unlimited TB Standard 3yr 24x7 Support	R4Q23AAE
StorMagic Unlimited TB Standard 5yr 24x7 Support	R4Q24AAE
StorMagic Unlimited TB Advanced 1yr 24x7 Support	R4Q25AAE
StorMagic Unlimited TB Advanced 3yr 24x7 Support	R4Q26AAE
StorMagic Unlimited TB Advanced 5yr 24x7 Support	R4Q27AAE
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StorMagic 12TB Standard 1yr 24x7 Renewal Support	R4U69AAE
StorMagic 12TB Standard 3yr 24x7 Renewal Support	R4U70AAE
StorMagic 12TB Standard 5yr 24x7 Renewal Support	R4U71AAE
StorMagic 12TB Advanced 1yr 24x7 Renewal Support	R4U72AAE
StorMagic 12TB Advanced 3yr 24x7 Renewal Support	R4U73AAE
StorMagic 12TB Advanced 5yr 24x7 Renewal Support	R4U74AAE

Summary of Changes

Date	Version History	Action	Description of Change
08-Sep-2020	Version 3	Changed	Added license requirement of per node and not per site
04-May-2020	Version 2	Changed	Added Support Renewal Licenses
02-Mar-2020	Version 1	New	New QuickSpecs

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