Human

Diagnostics Worldwide

Manufacturer of diagnostic products replaces existing A-brand storage environment with high-performing Open-E DSS V7 – Full Flash NFS Cluster solution (SAS SSDs)

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As a manufacturer of high-quality diagnostic reagents and analytical systems „made in Germany", HUMAN sells its products into the farthest corners of the world and 160 countries in total. Because of this vast network around the globe, the location in Wiesbaden, Germany required a capacity extension and update of its storage environment.

As increasing the existing A-brand infrastructure would have broken the budget, the company was looking for a more cost-effective alternative that would be able to provide fast and highly available storage for all virtual machines based on VMware.

OPEN-E DSS v. 7

Solution

Open-E Platinum Partner EUROstor from Germany received the project, and Account Manager Timo Scheib presented HUMAN with a 10 GbE NFS Active-Active Cluster, consisting of two of EUROstor's proven ES-8772 systems with Open-E DSS V7 Data Storage Software. The package included three years Open-E Premium Support and Hardware Replacement Service.
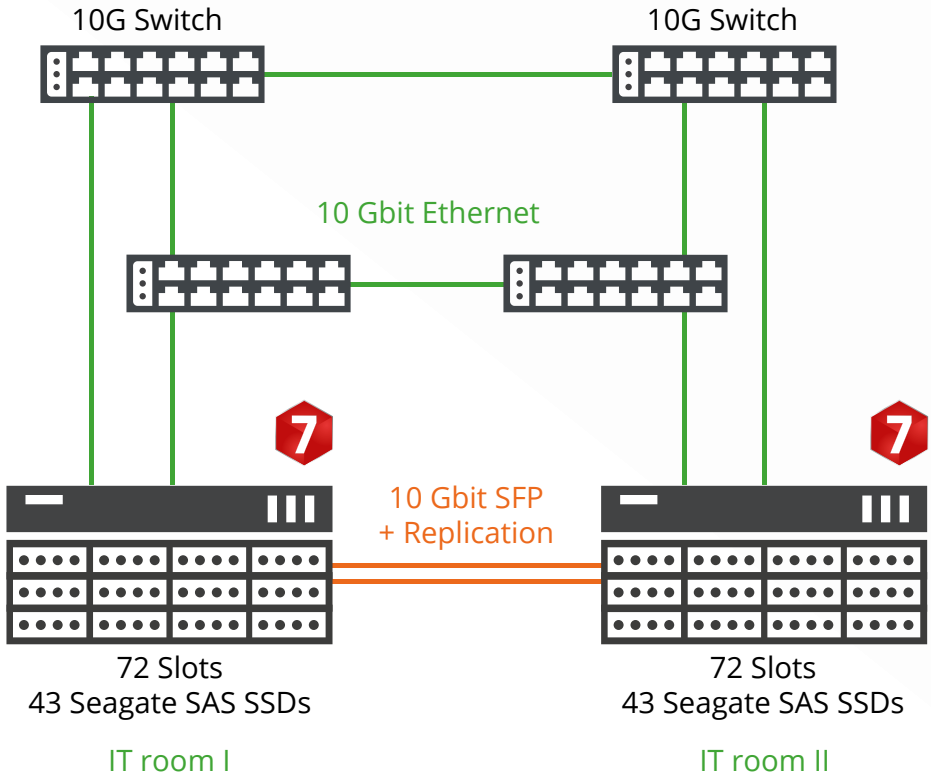
The new Full Flash SAS Cluster, equipped with high-performing SAS SSDs offers exceptional performance and acceleration of all internal processes. Compatibility problems of the previous iSCSI environment were eliminated with the new solution from EUROstor, based on NFS.

Apart from the easy configuration and handling as well as the extensive feature set of Open-E DSS V7, HUMAN now has the option to reliably store their data. With the automatic failover functionality in the Active-Active Cluster all users can continue working without interruption in case of a failure.

Configuration per cluster node	
Server	4U, 19" rackmount, redundant power supplies and fans 72-way system enclosure (12Gbit chassis) – suitable for 2.5" SATA, SAS or SSD drives
Processor	1 x Intel® Xeon E5-1650v4
RAM	32GB DDR-4 RAM (2400 MHz)
RAID controller	3 x ARECA 1883LP 12Gb/s
Ethernet	2 x 10GbE SFP+ (replication) 2 x 10GbE RJ45 / copper (HOST connection) 2 x 1GbE RJ45 / copper (management)
Drives	43 x 960GB SAS SSDs
Software	Open-E DSS V7 Unlimited capacity license Feature Pack for NAS (NFS) Active-Active Failover

Hardware setup

10G Switch   10G Switch

10 Gbit Ethernet

10 Gbit SFP
+ Replication

72 Slots
43 Seagate SAS SSDs

72 Slots
43 Seagate SAS SSDs

IT room I   IT room II

Customer feedback

Thomas Knauff, Head of Information Technology

„Thanks to EUROstor and Open-E we now have the perfect replacement for our previous A-brand storage environment: fast, high-performing and cost-efficient. Set it up and it's running – we are absolutely content with it."

About HUMAN Gesellschaft für Biochemica und Diagnostica

HUMAN, founded in 1972, is a Germany based privately owned company which develops, manufactures and distributes a wide range of IVD Diagnostics and laboratory equipment. The comprehensive portfolio of more than 400 products covers almost all areas of modern laboratory including Autoimmune and Molecular Diagnostics. With its strong network of partners in 160 countries and with six regional offices around the globe, HUMAN maintains probably the broadest distribution and service network, especially in developing and emerging countries. More on: **www.human.de**

About EUROstor

EUROstor has been a manufacturer of storage systems for more than 12 years. Originally manufacturing RAID systems, today the main part of the product portfolio are server based systems, acting as flexible storage servers, tailor-made for the customers' needs. Solutions range from small servers and CCTV storage to high available storage clusters, scale-out clusters and cloud solutions. EUROstor, located in Filderstadt near Stuttgart (Germany), sells to professional end users all over Europe, SMBs, universities and research institutes and data centers. More information on **www.eurostor.com**

About Open-E

Open-E, founded in 1998, is a well-established developer of IP- based storage management software. Its flagship product Open-E JovianDSS is a robust, award-winning storage application which offers excellent compatibility with industry standards, and is the easiest to use and manage. Additionally, it is of the most stable solutions on the market and undisputed price performance leader. Thanks to its reputation, experience and business reliability, Open-E has become the technology partner of choice for industry-leading IT companies. Open-E accounts for over 30,000 installations world-wide and has received numerous industry awards and recognition, also with its product Open-E DSS V7. For further information about Open-E, its products and partners, visit **http://www.open-e.de**

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