NEMIX®
TECHNOLOGY & EXPERIENCE

Open-E DSS V7 in the Aviation Sector

Nemix, a Spanish National benchmark in the deployment of IT solutions, also closely cooperates with the aviation sector.

Introduction

For a long time, the company had already been providing one of their main customers the platform systems they use to build audio registration systems responsible for recording conversations between the airplane and control towers.

The former systems had been composed of 4 physical servers: 2 dedicated to the storage of the audio files while another 2 servers running the recording and archiving application. However, there were new challenges to be faced to meet the requirements of this highly demanding solution in terms of data storage space and regulatory compliance.

Challenge

Nemix, in order to improve the currently provided solutions, decided to design a more reliable and cost-effective solution to face new projects on the market. The goal was to find an effective way to record and store communication records while being compliant with all the legal requirements for these types of systems that had to be met. The main requirement was the ability to keep these records for a defined period of time, that is why the storage solution was expected to be capacious and fail-safe. The system had to be also a part of the complex airport IT infrastructure, so it had to be built in a flexible and scalable manner.

Solution

Nemix proposed a hyper-converged virtualized solution that reduces the required Systems to only two physical servers by using Open-E DSS V7 as the core for the storage.

Each node runs VMware ESXi, and it has a locally deployed Open-E DSS V7 virtual storage server that controls the storage volume and exports it to the hypervisor utilizing the iSCSI protocol. As it runs locally through virtual switches, the performance storage is optimal.

Additionally, the storage volume is replicated to the secondary node that has the same configuration. This way, the company has a fully redundant recorder available even if one of the physical nodes crashes.

When the node is up again, the data is replicated back automatically to the primary node, and the system operates as usual.

After the implementation of the storage solution, powered by Open-E, Nemix included the product in the solutions portfolio to be deployed on a long-term basis all over the world.

Technical details

Total capacity:	4TB
Disk type:	SSD
Hypervisor:	VMware
License:	2x Open-E DSS V7
Features:	Feature Pack Active Failover iSCSI V7
Support:	2x Support

Hardware:

Server:	SUPERSERVER SYS-5029P-WTR
CPU:	1 x Intel® Xeon® SP 4214R
RAM:	3 x 16GB DDR4-2933
HBA:	AOC-S3108L-H8IR-16DD 8P INT
HDDs:	3 x HGST 8TB 3.5" SAS (Data Raid 5)
SSDs:	2 x Intel® SSD 480GB 2.5" SATA3 S4510 (O.S)
NICs:	AOC-STGS-I2T STANDARD LP DUAL-PORT 10GBASE-T

About Nemix

Nemix is one of the leading global technology and consulting companies in Spain and the technological partner for its customers. It is specialized in designing and deploying optimized platform solutions (hardware and software) for customers with special needs in several vertical markets like Transportation, Defense, Education and the leading firm in Digital Transformation Consultancy and Information Technologies in Spain and Latin America. Its business model is based on a comprehensive range of products, with a high-value focus and a high innovation component with more than 30 employees, a local presence in Spain, North America an South America cooperating with customers that sells their products all around tyhe world.

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 that offers excellent compatibility with industry standards. It's also the easiest to use and manage. Additionally, it is one of the most stable solutions on the market and an 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 38,000 installations worldwide. Open-E has also received numerous industry awards and recognition for its product, Open-E DSS V7. For further information about Open-E, its products and partners, visit **www.open-e.com**

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