//// StorMagic

CASE STUDY

BLOEMSEC

LOCATION: SOUTH AFRICA
INDUSTRY: SECURITY

NO. OF SITES: SINGLE DATACENTER
KEY BENEFIT: INCREASE IN UPTIME

Bloemsec Eliminates Single Points of Failure, Increases Uptime with StorMagic SvSAN

BLOEMSEC
SAFE IN OUR HANDS

BUSINESS CHALLENGE

Bloemsec provides professional, all-inclusive security services, including armed response, guarding, dedicated patrol and video surveillance. The company was founded in 2002 and its mission is to ensure the safety of Bloemfontein's citizens through excellent security solutions.

Bloemsec previously used standalone, non-shared storage in their datacenter. The environment lacked redundancy, required manual failovers and caused the headache of downtime during failover events. The network was complicated, and lacked the reliability to support Bloemsec's mission-critical systems.

The company wanted to add high availability, high reliability and continuous access to video surveillance footage with a virtualized environment. Two South African-based IT consultants reviewed and collaborated on Bloemsec's environment: Drive Control Corporation (DCC), a specialist distributor of IT products and official StorMagic partner, and First Technology Central (Pty) Limited, a single-source provider of IT products and services. The two advisors recommended a StorMagic virtual SAN solution to boost availability at Bloemsec.

SOLUTION

Following DCC and First Technology's recommendations, Bloemsec deployed StorMagic SvSAN as a high availability, hyperconverged solution deployed on a Microsoft Hyper-V failover cluster. SVSAN provides redundant storage between the two

> *StorMagic SvSAN is extremely cost effective and easy to use. The software's simplicity, and the high availability and redundancy features we've added make SvSAN an ideal fit for our organization.*

Vernon van der Westhuizen,
managing director of Bloemsec

compute nodes. SvSAN was very easy to set up, and offered an unmatched level of simplicity and affordability compared to other virtual SAN solutions on the market. StorMagic was able to streamline Bloemsec's environment down to two nodes, which reduced their need for more hardware and controlled their costs.

Bloemsec has removed the single points of failure that were present in the previous environment and greatly increased uptime since installing SvSAN. Acronis Backup is used to protect virtual machines and all data is sent from the primary datacenter for backup in the cloud.

Server Configuration (Per Server)

SvSAN License	SvSAN 2TB Gold
Servers	Two Dell R540
CPU	Two Intel Xeon Silver 4110 CPU sockets with eight cores per CPU
Memory	64GB
Storage	Five 600GB HDDs
Networking	10Gbit, direct connect
Hypervisor	Microsoft Hyper-V
Applications	MS SQL, Domain Controllers, Oryx Listener Armed Response and Alarm Management Software
Data Protection	Local Raid per Server, SvSAN mirror across 2 Nodes. Acronis Backup Software for Daily, Weekly and Yearly Backups

WHY STORMAGIC

Bloemsec chose StorMagic SvSAN for several reasons, including:

✔ EASE OF SETUP
SvSAN can be deployed as a single server, simple 2-node cluster, or multi-node cluster, with the flexibility to meet changing capacity and performance needs. This is achieved by adding additional capacity to existing servers or by growing the SvSAN cluster, without impacting service availability.

✔ COST EFFECTIVE
Eliminates physical SANs by converging compute and storage into a lightweight commodity server footprint thereby dramatically lowering costs.

✔ ADDED REDUNDANCY
StorMagic offers high availability and can be kept online during routine maintenance. In contrast, physical SANs must be taken offline to run maintenance operations and routine updates. With SvSAN, downtime has been virtually eliminated.

✔ OVERALL SIMPLICITY OF PRODUCT
StorMagic was founded on the concept that IT equipment had become too complicated to deploy and manage, and its core mission is to make the complex simple. SvSAN is running at approximately 1,000 customer sites, some with dozens, hundreds, or even thousands of locations.