

SIOS DataKeeper Provides High Availability for Global Retailer's Mission-Critical Systems

SIOS Software Delivers High Availability Data Protection in a User-Friendly Cloud Environment

By adding SIOS DataKeeper Cluster Edition to a Windows Server Failover Clustering environment in the Amazon Web Services cloud, this global retailer migrated a complex infrastructure into the cloud easily and without any downtime.



A global multichannel video game, consumer electronics, and wireless services retailer has more than 7,600 stores worldwide. They rely on more than 30 instances of TIBCO Software Enterprise Message Service (EMS) to provide a unifying medium of communication among the systems in its complex Windows infrastructure.

When the retailer decided to migrate its infrastructure to a Windows environment in the Amazon Web Services (AWS) cloud, they needed a secure, reliable solution that could handle thousands of customer transactions daily and scale to meet growing demand. The migration needed to be accomplished quickly and easily with no downtime. Keeping the existing EMS instances was a mandatory requirement.

The Challenge

For this migration to be successful, the retailer needed an easy, cost-efficient way to provide high availability protection for their business-critical EMS instances.

They faced several challenges: First, they could not use Microsoft Always On Availability Groups clustering to provide failover protection in the cloud because doing so would have required them to upgrade 30 instances of EMS, adding time, cost, and complexity to their migration plan.

Second, creating a failover clustering environment in Amazon Web Services using Microsoft Always On Failover clustering or other traditional clustering software requires the use of shared storage, which is not available in the cloud.

They needed a clustering solution that would provide more configuration flexibility than traditional failover clustering solutions would allow.

The Solution

To meet these requirements, the retailer's IT staff simply added SIOS DataKeeper Cluster Edition to a Windows Server Failover Clustering environment in the AWS cloud.

The SIOS software is fully integrated with WSFC and provides an easy-to-use configuration wizard for fast, efficient setup. This cluster maintains high availability for the retailer's mission-critical software. If WSFC fails over to the remote cluster node, SIOS DataKeeper ensures the application has immediate access to a mirror copy of the storage. The retailer's operations can continue after a failover without downtime or data loss. SIOS software created a fault-resilient environment that meets the retailer's high-availability requirements.

The Results

SIOS DataKeeper Cluster Edition provided the retailer the high-availability protection they needed and eliminated the risks associated with a single point of failure in shared storage SAN cluster configurations. The SIOS failover process enabled automatic system and application recovery and prevented data loss if a server goes down, allowing the retailer's customers to shop and place orders online safely without any interruptions.

About SIOS Technology Corp.

SIOS Technology Corp. makes software products that provide the insights and guidance IT managers need to optimize and protect business critical applications in large, complex data centers.

SIOS iQ is a machine learning analytics software that helps IT managers optimize performance, efficiency, reliability, and capacity utilization in virtualized environments. SIOS SAN and SANLess software is an essential part of any cluster solution that provides the flexibility to build Clusters Your Way™ to protect your choice of Windows or Linux environment in any configuration (or combination) of physical, virtual and cloud (public, private, and hybrid) without sacrificing performance or availability.

Founded in 1999, SIOS Technology Corp. (<http://us.sios.com>) is headquartered in San Mateo, California, and has offices throughout the United States, United Kingdom, Singapore and Japan.



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