

## SteelEye® DataKeeper™ Support for Hyper-V™

### Question

What is SteelEye DataKeeper and what value does it bring to Windows Server 2008 Hyper-V deployments?

### Answer

SteelEye DataKeeper is a stand-alone data replication solution for Windows Server 2003 and Windows Server 2008. There are two versions, Standard Edition and Cluster Edition. Standard Edition delivers data replication services as an extension to either Windows Server 2003 or Windows Server 2008. Cluster Edition is designed to further extend the capabilities of Windows Server Failover Clustering (WSFC), enabling multi-site clusters and eliminating the shared physical disk resource - a single point of failure. SteelEye DataKeeper enables complete disaster recovery by keeping a running Hyper-V virtual machine in sync with a standby Hyper-V virtual machine in an alternate location for simple disaster recovery without data loss typically associated with traditional backup and restore technology. Real-time continuous replication of running Hyper-V virtual machines (Virtual Hard Disks, Virtual Machines and Snapshot files) insures that in the event of a disaster, the standby server can be activated with minimal to no data loss by using WSFC to do a "quick migration" across data centers.

### Question

Why is SteelEye DataKeeper important for customers who already have or are now deploying Windows Server 2008 Hyper-V?

### Answer

As customers consolidate workloads from a number of physical machines onto a smaller number of tightly connected servers in a Hyper-V resource pool, the need for Disaster Recovery protection increases. As multiple VMs are consolidated onto single physical servers, having a highly available Hyper-V environment is a must.

### Question

Does Microsoft have a bundled disaster recovery solution with WSFC and Hyper-V?

### Answer

Not in the current Windows Server 2008 release. SteelEye has been working with Microsoft to extend the capabilities of WSFC and Hyper-V to offer the data replication capabilities to deliver a full featured disaster recovery solution. When paired with WSFC, DataKeeper allows administrators to build "shared-nothing" and geographically dispersed Hyper-V clusters. By

eliminating the requirement for shared storage, the administrator can protect against both planned and unplanned downtime of servers and storage, as well as protect against environmental failures such as power outages and other regional disasters.

### Question

Is SteelEye DataKeeper capable of providing disaster recovery protection for Hyper-V VMs both locally and over a WAN?

### Answer

Yes. SteelEye DataKeeper can provide disaster recovery protection for Hyper-V VMs over a local network or across a WAN to geographically dispersed clusters. Some of the features include Asynchronous/Synchronous replication, non-disruptive disaster recovery testing, network throttling, rollbacks via snapshots and nine-levels of data compression.

### Question

What versions of Windows Server 2008 does SteelEye DataKeeper support?

### Answer

32-bit/64-bit Windows Server 2003 Standard/Enterprise/DataCenter, 32-bit/64-bit Windows Server 2003 R2 Standard/Enterprise/DataCenter, 32-bit/64-bit Windows Server 2008 Standard/Enterprise/DataCenter

### Question

Which guest operating systems does Hyper-V support?

### Answer

While DataKeeper will replicate any VM, regardless of the OS, Hyper-V does have limitations. An extensive list of guest operating systems supported by Hyper-V can be found at: <http://www.microsoft.com/windowsserver2008/en/us/hyperv-supported-guest-os.aspx>

### Question

How is SteelEye DataKeeper licensed and priced?

### Answer

SteelEye DataKeeper is licensed to a physical machine that is running Windows Server 2008 Hyper-V. In general, pricing is per server and unlimited use. There are different prices for Standard and Cluster Editions. Pricing is variable depending upon your customer type and volume.

Contact: [sales@steeeye.com](mailto:sales@steeeye.com) for more information.



## Question

How long does it take to deploy SteelEye DataKeeper?

## Answer

There are many variables that determine the length of time it takes to complete a deployment. Many customers with less complex disaster recovery requirement should be able to complete the process within an hour. More complex situations requiring combinations of replicated and non-replicated storage repositories and wide area network tuning will take more time.

## Question

How many VM's can I replicate to the Disaster Site? Or is there a limit on the number of VMs I can have?

## Answer

There is no hard limit on the number of VMs that you can replicated to the disaster recovery site. However, you will probably run into limits on the number of VMs that could run on a server at you DR site (so you might need more than one) and the amount of bandwidth that you have between your production and disaster recovery sites can limit your number of VMs that you can replicate, as well. SteelEye can assist you in sizing your WAN requirements by using Performance Monitor to measure the disk write bytes/sec on your replicated volumes to measure your rate of change.

## Question

What is the relationship between SteelEye and Microsoft?

## Answer

SteelEye is a Microsoft Certified Gold Partner and is a participant in the Microsoft Multi-site Cluster program. This affords SteelEye a purview of Microsoft technology, marketing materials and knowledge base to assure the best experience possible for SteelEye DataKeeper customers.

## About SteelEye Technology

SteelEye is the leading provider of data and application availability management solutions for business continuity and disaster recovery for Linux and Windows and virtual environments.

The SteelEye family of data replication, high availability clustering and disaster recovery solutions are priced and architected to enable enterprises of all sizes to ensure continuous availability of business-critical applications, servers and data.

To complement its software solutions, SteelEye also provides a full range of high availability consulting and professional services to assist organizations with the assessment, design and implementation of solutions for ensuring High Availability within their environments.

SteelEye is a subsidiary of SIOS Technology, Inc. To contact SteelEye, visit [www.steeeye.com](http://www.steeeye.com) or call:

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