SIOS DataKeeper Cluster Edition

v8.2

Release Notes

October 2014

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SIOS DataKeeper Cluster Edition

Release Notes

Version 8.2

(Version 8 Update 2)

Important!!

Read This Document Before Attempting To Install Or Use This Product!
This document contains last minute information that must be considered before, during and after installation.

Introduction

SIOS DataKeeper Cluster Edition is a highly optimized host-based replication solution which integrates seamlessly with Windows Server 2012, Windows Server 2012 R2, and Windows Server 2008 R2/2008 R2 SP1 Failover Clustering. Features of Windows Server Failover Clustering such as cross-subnet failover and tunable heartbeat parameters make it easy for administrators to deploy geographically dispersed clusters. SIOS DataKeeper provides the data replication mechanism which extends both versions of Windows Clustering, allowing administrators to take advantage of these advanced features to support non-shared disk high availability configurations.

Once SIOS DataKeeper Cluster Edition is installed, a new storage class resource type called DataKeeper Volume is available. This new SIOS DataKeeper Volume resource can be used in place of the traditional Physical Disk shared storage resource to enable geographically dispersed clusters, also known as multi-site clusters.

New Features of SIOS DataKeeper Cluster Edition v8

Feature	Description
New in This Release	
DataKeeper Non-Mirrored Volume Cluster Resource	The DataKeeper Non-Mirrored Volume Cluster Resource allows users to use a local volume in a failover cluster without requiring that it be part of a mirror. Some of the common use cases for this feature include enabling rolling cluster OS upgrades on existing hardware and moving tempdb to local storage in SQL 2008 R2 clusters and earlier.
General Maintenance	See Bug Fixes below.

Feature	Description
New in Version 8.1	
General Maintenance	Bug Fixes.
New in Version 8.0.1	
General Maintenance	Bug Fixes.
New in Version 8.0	
Replicate to Node Outside of Cluster	DataKeeper now allows you to have a replication target which resides outside of the failover cluster.
Operating System Support	DataKeeper now only supports Windows 2008R2 and later 64-bit Operating Systems. To run on an earlier version of Windows or on 32-bit systems, you must use DataKeeper v7.
Windows 2012 R2 Support	DataKeeper now supports Windows 2012 R2.
General Maintenance	Bug Fixes.

Bug Fixes

The following is a list of the latest bug fixes and enhancements.

	Description
2648	Multi-target split brain prevention (paused source) does not work - automatically becomes target
3315	Cluster Splitbrain Recovery enhancement
3890	Fix SlicMgr, "Valid, Product Not Found" error
3910	Multi-target failovers or mirrors going non-mirroring cause PAGE_FAULT_IN_NONPAGED_AREA BSOD
3918	Possible excessive memory usage with multi-target mirror
3919	BSOD 0x9E Watchdog expired due to volume writes being blocked by ExtMirr
3921	BSOD after reboot of shared source
3922	BSOD completing a command request with Verifier special pool checking enabled
3929	Volume Letters A and Z could cause problems in the DK GUI

	Description
3930	BSOD if Driver Verifier runs while taking a snapshot on a Windows 2012 R2 system
3933	Do not allow cluster resource to move between nodes that are in Split Brain with each other
3934	Typo in Event ID 150
3935	BSOD when taking snapshot
3943	Hitting the write queue High Water mark could case an unusually large resync
3955	Switchover checks wrong volume in disk pull detection, which can cause splitbrain

Product Definitions and Platforms

Product Requirements

Product	Operating Systems	Additional Software
Server Components	See the DKCE Support Matrix	Hotfix – KB 951308 http://support.microsoft.com/kb/951308 If protecting Hyper-V resources, Hotfix KB 958065 http://support.microsoft.com/?id=958065 **Note**: These hotfixes are not required for Windows Server 2008 R2/2008 R2 SP1. Microsoft Hotfix KB 2741477 is now available that will allow NICs to be added to a Virtual Machine after the VM has been placed into a Failover Cluster. (For more information, see Hyper-V Host Cluster Error.)
	See the DKCE Support Matrix	See below for details.
	Note: The target snapshot feature requires Microsoft .NET Framework 3.5 SP1 to be installed - download from: http://www.microsoft.com/net.	
User Inter-face	See the DKCE Support Matrix	MMC 3.0 - download from: http://support.microsoft.com/kb/907265

Note: All servers within a cluster should be running the same version of Windows.

Make sure you verify the following settings prior to installing and configuring SIOS DataKeeper Cluster Edition.

- **Important**: SIOS Technology Corp. recommends that users use Domain accounts that have local Admin privileges on all servers running DataKeeper. If you are using Local accounts, the username and passwords must match on all servers running DataKeeper. This recommendation is for all editions and

all platforms.

- The Windows Failover Cluster environment must be installed and configured prior to installing the SIOS DataKeeper Cluster Edition software up to the point of creating your first cluster resource. Follow Microsoft best practices for deploying geographically dispersed clusters, including changing the quorum mode majority node set with a file share witness. **If the basic Windows cluster is not configured prior to installing DataKeeper Cluster Edition, a repair installation of DataKeeper Cluster Edition is necessary before you are able to create a DataKeeper cluster resource.**

Local Security Policy Requirement

If your Windows servers are not in a domain and you are going to run the DataKeeper Service as the local system account, the Local Security policy setting "***Network Access: Let Everyone permissions apply to anonymous users***" must be enabled.

Known Issues

SCVMM 2012

If using DataKeeper with SCVMM 2012, you must use SCVMM 2012 SP1.

Windows Server 2012

For issues and enhancements related to **Windows Server 2012**, see the following topics in the Known Issues section of the DataKeeper Cluster Edition Technical Documentation:

- WSFC 2012 Failover Cluster Manager UI Defect
- WSFC 2012 New File Server Type Not Supported
- Manual Creation of a Mirror in WSFC
- WSFC 2012 Cluster Creation Default Setting Issue
- WSFC 2012 File Shares Cannot be Created for File Server Resource
- WSFC 2012 Server Manager -- Incorrect Volume Display
- WSFC 2012 Server Manager -- DataKeeper "Disk" Not Shown as Clustered
- Windows Server 2012 Default Information Missing During Mirror Creation
- Windows Server 2012 MMC Snap-in Crash
- Windows Server 2012 -- Simultaneous Move of Multiple Clustered File Server Roles Can Result in DataKeeper Switchover Failures
- Windows Server 2012 iSCSI Target Role Does Not Support Dynamic Disks
- Using iSCSI Target with DataKeeper

DataKeeper Cluster Edition Quick Start Guide

To get started using SteelEye DataKeeper Cluster Edition, refer to the DataKeeper Cluster Edition Quick Start Guide.