Diskeeper® Server

Overview

For Windows® physical servers with local storage, direct-attached storage (DAS) or storage area network (SAN), Diskeeper® 15 Server proactively prevents performance-robbing fragmentation from occurring to keep systems running like new. Diskeeper Server's patented IntelliWrite® technology prevents files from being fractured and broken apart into pieces before being written to disk or SSD in a non-sequential manner.

Organizations who have virtualized their servers should consider Condusiv's V-locity® I/O reduction software.

Industry's First Fragmentation Solution for SAN

Diskeeper 15 Server represents the industry's first real-time fragmentation solution for SAN storage systems. Prior to Diskeeper 15, administrators would never consider running a fragmentation process on a "live" production SAN due to the negative effects of change block activity without first taking the SAN, or one of its volumes, offline. Diskeeper 15 Server changes that by addressing and eliminating fragmentation at the source on the physical server layer before it becomes a problem, allowing administrators to expand the use of Diskeeper Server beyond server local storage or DAS to now include SAN storage.

While modern SAN storage storage systems do a good job of managing blocks at the physical disk layer to help combat fragmentation, it does nothing to address fragmentation at the logical disk layer, which is the primary reason for degradation in SAN storage performance over time. If the Windows OS sees a file existing as 20 separate pieces at the logical disk layer, that means the physical server and SAN storage device will execute 20 separate I/O operations to process the file. That's a lot of overhead to the physical server and a lot of unnecessary IOPS to the SAN, considering it would have taken just one or two I/O operations to move the same amount of data if Diskeeper 15 Server was being used to prevent fragmentation at the logical disk layer.

Without Diskeeper, files are broken apart and scattered around a volume in pieces instead of written in one place (or logical disk in the case of a SAN). Diskeeper optimizes writes and subsequent reads by writing data in a contiguous manner, which reduces seek time and the number of I/Os required to write a file or access it.

Not only does Diskeeper Server introduce a new era of performance optimization to SAN storage using hard disk drives, but also solid-state drives (SSD) as well. It doesn't take long for SSDs to fall below their manufactured performance spec the longer they are in use. While an SSD should not be defragmented, fragmentation prevention has enormous benefits in regard to accelerating the speed of write activity.

Diskeeper Keeps Servers and Storage Running Like New

Diskeeper's intelligent resource monitoring, InvisiTasking®, ensures all optimization occurs without hampering system resources, so servers can operate at full production while Diskeeper runs in the background. InvisiTasking monitors resource consumption on a Windows system (disk, memory, network and CPU usage) and uses only resources that are otherwise idle, so Diskeeper runs invisibly with no intrusion on system resources.

For IT professionals who need to deploy Diskeeper across multiple servers, the Diskeeper Administrator Console allows for seamless network deployment. For Windows servers, Diskeeper is the only highly efficient and proactive software for maximum performance—making it the #1 solution for keeping Windows servers and storage running like new.

DATASHEET

A Toolkit of Proactive and Highly Efficient Technologies

Diskeeper Server contains multiple performance technologies to keep Windows Servers running like new, including:

IntelliWrite write I/O optimization technology prevents files from being fractured and broken apart into pieces before being written to disk or SSD in a non-sequential manner.

InvisiTasking intelligent monitoring technology allows all "background" operations within the system to run with near-zero resource impact on current activities.

Disk Health Monitoring monitors S.M.A.R.T. disk data; checks for other critical file system problems; warns of critical problems or an imminent disk failure; generates alerts by e-mail or text messages for 24/7 monitoring.

Enhanced analysis reports display health and performance gains for the system. Reports include: Fragmentation Analysis, Read and Write Access Time Improvement, File and Free Space Performance, and Disk Access I/Os Saved.

Instant Defrag technology has been enhanced to monitor volumes to resolve critically fragmented files in real-time that are known to cause performance problems, making it SAN-friendly.

MediWrite™ technology engine resolves extreme file fragmentation issues that can cause the File Attribute List (FAL) to reach its maximum size limit in MEDITECH environments.

System Requirements

100MB of available hard drive space, standard operating system hardware requirements.

Diskeeper Server Benefits

- Keeps Windows servers and storage running like new
- Delivers accelerated I/O performance for Windows servers in local storage, direct-attached storage (DAS) and storage area network (SAN) environments
- Improves business productivity by ensuring applications run at peak performance
- Prevents fragmentation at the Windows OS level
- True "set and forget" management

Supported Platforms

Windows Server 2008/2008 R2, Windows Server 2012/2012 R2

More Information

www.condusiv.com

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To speak with a product specialist outside the U.S.: Call +44 (0) 1483 342 360. For specific country offices and contact numbers, please visit our website.

About Condusiv

Condusiv Technologies creates high-performance software that optimizes and maintains application operation efficiency and equipment longevity to increase productivity in technology, people and businesses. Condusiv customers include enterprises, government agencies, ISVs, OEMs and home users worldwide. A market leader in data storage innovation, the company's solutions help technology function at peak levels.

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