



NEVEX CacheWorks. Driving Performance.

VM, server, and application performance is degraded by the storage I/O bottleneck.

Today's multi-core, multi-CPU servers are being held back by slow storage that cannot keep up with ever-increasing demand, preventing systems from reaching the full performance potential of their impressive hardware specs. Traditional solutions of adding more storage, servers, or memory adds huge expense, as well as management complexity.

NEVEX uses intelligent caching rather than extreme spending to solve the storage I/O bottleneck, and unlock the potential of your VMs and Windows Servers.

NEVEX CacheWorks separates storage performance from storage capacity, driving high-end performance from low-cost storage. Virtual machines and applications such as Microsoft SQL Server, Exchange, and SharePoint can be accelerated up to 10X with no migration effort or administrative overhead.

Highlights

- **Transparently accelerate applications**
- **Increase VM density**
- **Reduce storage latency**
- **Application specific performance with granular policy management**
- **Flash performance without the cost**

Features

Application Acceleration	CacheWorks operates at the Operating System level, transparently accelerating applications up to 10X with no application or storage configuration required
Cross-Platform	Accelerates both Windows Servers and Virtual Machines (including Hyper-V Live Migration)
Solve I/O Latency	A minimal amount of flash on server caches active data locally, reducing I/O latency from primary storage, and accelerating overall storage performance
Optimize Storage	Performance offloaded from primary storage, allowing spindles to be utilized for capacity rather than over-provisioning for performance
Application Specific IOPS	Accelerate or exclude data at a granular level based on (sub)Applications, Filenames (pattern match), Directory/Path, File Type (extension), and more
Storage Agnostic	Supports any vendors flash or SSD as the cache device. Works seamlessly with any backend storage including disk array, SAN, and direct attached storage
Sparse-File Architecture	Only active portions of files are cached, allowing higher utilization of the flash/SSD media
Data Integrity	Read with Write-Through caching maintains version consistency between NEVEX cache and primary storage, preserving data integrity

NEVEX CacheWorks – Accelerate applications, servers, and Virtual Machines

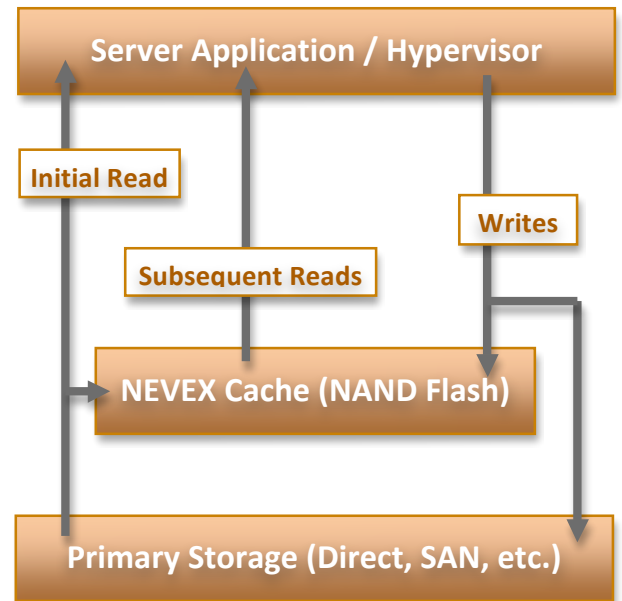
The NEVEX CacheWorks software installs seamlessly into the Windows operating system itself, providing a cache solution that is transparent to users and applications, as well as primary storage.

On an initial read, data is returned to the application from its primary storage location and also placed in the NEVEX cache. Subsequent reads are returned from the cache at high-performance flash speed. All data is written synchronously to both primary storage and the cache.

When the cache is full, newly identified active data evicts stale data from the cache, utilizing the NEVEX proprietary eviction algorithm.

NEVEX runs in the Windows kernel for maximal performance, and also has a user-level component allowing integration with other cache levels (ie, memcache, Windows file cache).

NEVEX installs into the Windows Server OS, both as a physical server and running in a VM under VMware, Hyper-V, etc. NEVEX can also be installed into the Host OS for Hyper-V, supporting live migration.



Specifications

Platform Support	64-bit Microsoft Windows Server 2003, 2008, 2008 R2 Windows Hyper-V (with Live Migration support) VMware (running Windows Server as the Guest OS)
Storage Requirements	Any primary storage device including SAN, local disk, RAID, iSCSI, or Fiber Channel, etc.
Flash/SSD Requirements	Any Windows supported flash device (SAS, SATA, PCIe, Fibre Channel)
Application Support	Any I/O intensive applications, including databases, Microsoft Exchange and SharePoint, transactional web servers, etc.
Management	Graphical user interface to manage included/excluded data acceleration and overall cache operation



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