

Performance, Value, & Protection for VMware View

Highlights

A storage acceleration solution with integrated, multi-tier data protection that improves virtual desktop performance by 1,000%:

- Eliminate VDI performance bottlenecks
- Improve storage performance while reducing cost
- Comprehensive 3-tiered data protection & recovery
 - Entire VMware View environments
 - VMware View user data repository
 - Self-service file-level recovery
- Easy to deploy, scale, & manage
- Reduces VMware View deployments from days to hours
- 10x faster VDI maintenance processes

Desktop virtualization is bringing a new approach to enterprise-wide desktop deployments aimed at providing a better end-user and administrator experience. Unlike physical desktop deployments, virtualization lowers acquisition and management cost, offering a highly scalable, easy to deploy, and fully protected desktop environment. Nevertheless, this consolidation raises new challenges in terms of compute resources allocation and granular data protection and recovery processes.

Frequent operations in a virtual desktop infrastructure (VDI) environment such as boot, login, logoff, shutdown, patch, and antivirus scanning processes are very demanding in terms of storage Input Output Per Second (IOPS) and result in slowing down VDI operations significantly. VDI-based storage I/O storms can last anywhere from 30 minutes to two hours at a time when a large number of VDI users or administrators are performing any of these actions simultaneously. Administrators are severely limited to when they can perform updates and patches, even if there is an emergency application patch required, due to the potential for widespread storage contention.

PERFORMANCE WITHOUT COMPROMISE

The FalconStor[®] Network Storage Server (NSS) SAN Accelerator for VMware View addresses the challenge of scaling virtual desktop deployments by addressing the storage performance bottlenecks related to frequent cyclic VDI activities. A dynamic storage caching solid-state layer providing high-performance storage services mitigates any performance impact due to I/O bottlenecks, and accelerates the boot, login, logoff, and VDI maintenance processes by nearly 10 times while reducing the total cost of ownership (TCO) of the storage infrastructure. In addition to accelerating the VDI operations, the solution allows for a high level of data protection and significantly reduces overhead related to data protection and recovery.

FalconStor NSS SAN Accelerator for VMware View employs dynamically allocated block-based solid-state disk (SSD) cache in front of any storage tier that is suffering from I/O storage storms. 'Golden' images of virtual desktops have a high-performance SSD-based cache shield to protect them from huge read spikes in I/O and to prevent performance bottlenecks. FalconStor NSS SAN Accelerator for VMware View also protects VMware Linked Clone Virtual Desktops from both read and write storms using the same dynamically allocated SSD cache technology.



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THREE-TIERED DATA PROTECTION & RECOVERY

Based on innovative FalconStor storage virtualization and data protection technology, the FalconStor NSS SAN Accelerator for VMware View delivers a three-tiered data protection and recovery strategy, providing built-in local business continuity and remote disaster recovery (DR), full protection of VMware View user data repository, and end-user self-service file-level recovery. The solution is the first of its kind to provide this level of granularity and flexibility. Entire VMware View environments or departmental deployments can be instantly recovered locally using FalconStor snapshots or remotely through WAN-optimized replication. In addition, an entire user data repository can be recovered consistently with VMware View environments locally and remotely to provide comprehensive coverage of system and end-user data.

Furthermore, allowing end users to perform self-service file-level recovery significantly reduces management overhead and eliminates most IT staff intervention to recover lost or corrupted files. Traditional backup models cannot be supported in VDI environments due to the heavy I/O load that they impose on the virtualized infrastructure. FalconStor NSS SAN Accelerator for VMware View is the first solution to address this problem. A FalconStor file-level data protection and recovery agent is injected into the master virtual desktop image and preconfigured so that end users have full protection of their files and data immediately.

LOWERING VDI STORAGE COST

The cost benefit of the solution is substantial. With FalconStor NSS SAN Accelerator for VMware View, the bulk of the storage infrastructure can be based on high-density low-cost SATA drives while adding a marginal capacity of high-performance SSD as on-demand dynamically allocated block-based cache to meet the demanding IOPS and latency requirements of a virtual desktop infrastructure. This allows customers to reduce storage costs by more than 50% while increasing the overall performance of their storage infrastructures.

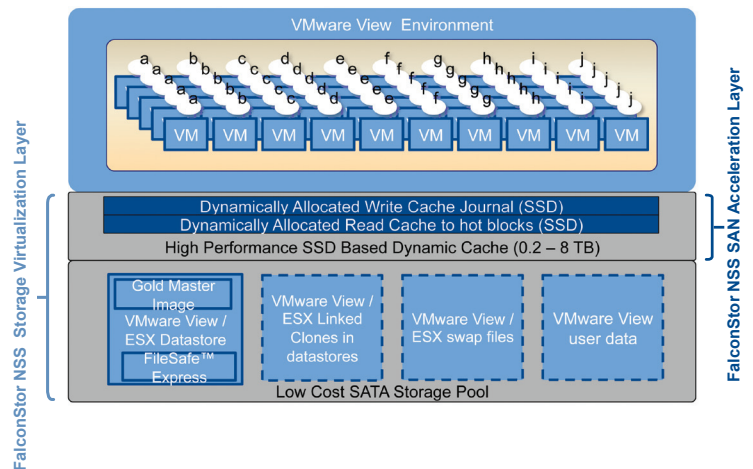
INTEGRATION, SIMPLICITY, SCALABILITY

FalconStor NSS SAN Accelerator for VMware View is an easy-to-install, easy-to-manage, and easy-to-grow storage appliance. The solution can massively scale to support large environments running tens of thousands of virtual desktops under the same storage infrastructure. A clustering capability allows the FalconStor NSS SAN Accelerator to scale capacity and performance of the supported infrastructure on demand.

FalconStor NSS SAN Accelerator for VMware View leverages all of VMware’s virtual desktop management tools to create, manage, and update desktop images. Enterprise-wide storage caching technology seamlessly integrates into the existing storage infrastructure, simplifying management of heterogeneous storage platforms from different vendors. This caching technology can be used with vSphere and many other messaging and database applications.

HIGHER PERFORMANCE & PROTECTION AT A LOWER COST

With FalconStor NSS SAN Accelerator for VMware View, virtual desktops boot more than 10 times faster than when hosted on other SAN resources. This eliminates delays to VDI performance and operations. VDI operations run faster, reducing data center operational management time and cost, without affecting end users running virtual desktops. FalconStor NSS SAN Accelerator for VMware View ensures that virtual desktop service level agreements (SLA) can be met through cost-effective, innovative SAN acceleration with integrated data protection and recovery.



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