

Real Protection for Virtual Environments

DATA PROTECTION

APPLICATION AVAILABILITY

DISASTER RECOVERY

SteelEye® Protection Suite for VMware Infrastructure 3

Key Features:

- Full protection for all VMware Virtual Infrastructure 3 components
- Monitors and recovers VMware ESX Server 3.0 Virtual Machines and the applications within them
- Supports clustering for VirtualCenter Management Server and underlying databases
- Runs either within the VM to monitor application health or within the Console OS to manage individual VMs
- Automated monitoring and recovery for physical systems, Virtual Machines and applications running within Virtual Machines
- Virtual-to-virtual, virtual-to-physical and physical-to-virtual failover configuration support
- Easily configurable via JAVA-based GUI
- Management of individual applications and resources within the Virtual Machine
- Supports SCSI and FC shared storage, NAS and data replication
- Integration with SteelEye Data Replication allows for complete Wide-Area Disaster Recovery of Virtual Machines

The SteelEye family of data replication, high availability clustering and disaster recovery products provide the industry's only complete end-to-end protection for VMware Infrastructure deployments with fast and automatic failure detection and recovery of both physical and virtual servers, comprehensive monitoring and recovery for individual applications and services within the VMs, monitoring and failover for Virtual Center and tremendous flexibility in building failover configurations from a mixture of physical and virtual machines using either shared storage or data replication.

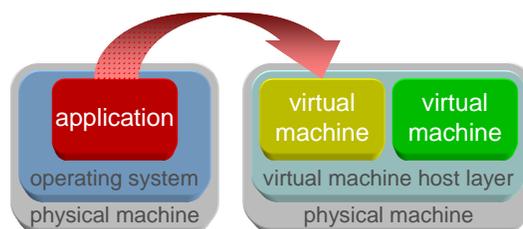
Because SteelEye solutions support both shared storage and replicated data configurations, cluster members can be deployed across distant network connections to provide total assurance against outages at your primary data center. SteelEye Data Replication for Linux and Windows gives continuous data protection across either LANs or WANs using a highly optimized change-only replication engine. With a real-time copy of your data at a remote site, recovery from a data center catastrophe takes minutes instead of days.

With SteelEye, your VMware environment is completely protected.

Monitor health of applications within Virtual Machines

SteelEye HA Clustering operates in VMware ESX Server virtual machines to monitor and recover individual applications, databases and critical services residing within the virtual machine. LifeKeeper supports physical-to-virtual, virtual-to-virtual and virtual-to-physical failover configurations with a nearly limitless range of more complex configurations possible from these simple building blocks.

The diagram below shows an example of a physical-to-virtual failover configuration. Here, a physical, non-virtualized system serves as the primary server for an application with failover occurring to a backup ESX Server virtual machine. This type of configuration is most useful to allow a single physical system, running multiple VMs within it, to serve as the backup for multiple other physical systems while still providing for fencing between the individual application components.



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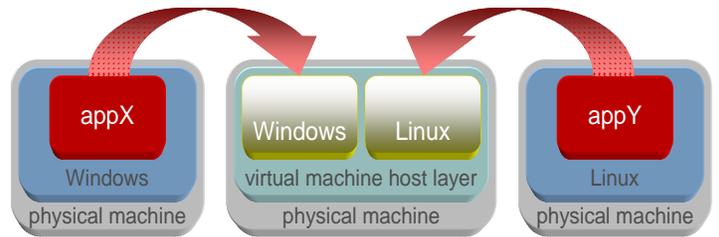
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In this many-to-one configuration, we have two physical systems, one running Linux and the other running Windows, being backed up by a single physical system. On the backup system are a number of VMs with each acting as a failover target for a physical machine within the cluster. Allowing a single physical server to act as a standby system for both Linux and Windows applications removes the need to dedicate a physical server to each separate OS environment, thereby reducing the cluster hardware requirement and cost. You can use this approach to build a "failover appliance" which acts as the failover target for all physical servers within your IT infrastructure.

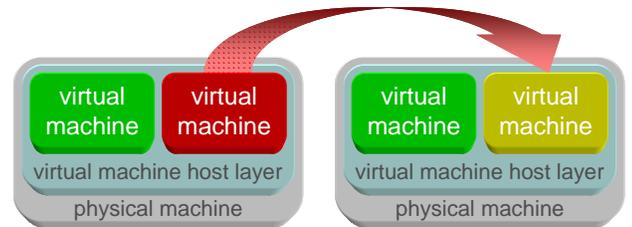


Monitor and Migrate Virtual Machines

SteelEye also supports virtual-to-virtual recovery actions. This is accomplished in your choice of two methods.

SteelEye solutions can run within the console OS to monitor the health of VMs and use standard VMware APIs to either suspend/resume or failover VMs on the backup physical server. Providing both automated monitoring and recovery of VMs and the ability for administrators to manually control VM migration gives the highest level of VM management available today.

The solution can also run within the virtual machine itself to monitor the complete application stack, including services, databases, guest OS, virtual devices, and automatically move applications across systems as needed to maintain availability. If any piece of the application stack experiences a problem, SteelEye will detect and recover based on user-defined policies. Numerous combinations of virtual-to-virtual failovers are possible including moving between VMs within the same physical server and cascading recovery across multiple VMs residing on multiple physical servers.



Protect VirtualCenter Management Servers

VirtualCenter can manage hundreds of VMware servers and thousands of virtual machines. However, there is no VMware-provided mechanism to monitor and protect the VC server itself. If VirtualCenter should fail, all ability to effectively manage the multitude of VMs in your environment is gone. SteelEye provides the only solution for clustering VirtualCenter server to ensure complete protection against any failure within the VMware Infrastructure environment. With the ability to also monitor underlying SQL Server and Oracle databases, the complete VirtualCenter environment is protected against both planned and unplanned outages.

SteelEye provides your complete VMware Infrastructure High Availability and Disaster Recovery solution.

About SteelEye Technology®



SteelEye, a subsidiary of SIOS Technology, is a leading provider of application and data availability management solutions for business continuity and disaster recovery on Linux and Windows. The SteelEye Life-Keeper family of software products enable enterprises of all sizes to ensure continuous availability of business-critical applications and data on industry standard servers and storage systems. SteelEye software products are available worldwide and may be purchased directly from SteelEye or through the SteelEye international network of business partners.

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