

SteelEye® Protection Suite for Citrix® XenServer

The SteelEye Protection Suite for Citrix XenServer combines Data Replication, SteelEye's LifeKeeper clustering, and Xen-specific optimizations to deliver complete end-to-end disaster recovery protection for Xen-based deployments. Providing real time data replication for Xen Virtual Machines (VMs) and utilities to manage virtual machines at the disaster recovery site, SteelEye Protection Suite for Citrix XenServer is the backbone of your disaster recovery plan and assures that your Xen environment is completely protected.

Automatic Replication of Virtual Machines

SteelEye Data Replication is an integral part of SteelEye Protection Suite for Citrix XenServer and run within the Xen console OS (Dom 0) to provide highly optimized replication of Xen VMs across any network connection, LAN or WAN. The entire virtual machine is replicated in real-time to a target server where it is available to be brought in service as needed to support the organization's business continuity requirements. With built-in compression and a change-only replication model, SteelEye Data Replication is built to ensure that VM replication is efficient, that data integrity is maintained and that bandwidth usage and CPU cycles are kept to a minimum. Bandwidth throttling is also available for situations where bandwidth must be shared. The solution also supports selective VM replication for instances where not all VM images are considered business-critical. Individual VMs or groups of VMs can be selected for replication.

The SteelEye Protection Suite for Citrix XenServer is aware that the virtual machines may move around to various

machines in the resource pool, using either XenMotion or Suspend/Resume or XenServer HA. These outstanding features of Citrix XenServer are fully supported by the Protection Suite. For instance, if a virtual machine is being replicated on one system in the resource pool, and an administrator decides to migrate the virtual machine to another system in the pool (using XenMotion), the replication will be temporarily paused during the migration and restarted when the migration is complete. Administrators can use the normal XenCenter or XenServer command line tools (xe) to manage their virtual machines during these normal machine migrations.

Protection of XenServer Standard and Express

For SMB customers using XenServer Standard (or Express) on a single server (resource pools are not supported), the Protection Suite can provide even more critical protection. In these situations it is vital to provide protection against storage or physical system failure. The SteelEye Protection Suite for Citrix XenServer can be used to provide a backup server in a LAN for the primary XenServer system. Or you can replicate to an alternate data center for disaster recovery protection.

Virtual Machine Migration

IT organizations utilizing multiple, dispersed, XenServer resource pools will have the need (from time to time) to migrate a virtual machine from one pool to another. SteelEye Protection Suite for Citrix XenServer is available with time-limited licenses to facilitate movement of a virtual machine from one resource pool to another, across a wide area network. Available in 15 or 90 day increments, the time limited licenses will provide cost-effective access to the tools to easily accomplish virtual machine migration.

Key Features:

- WAN replication for complete disaster recovery of virtual machines across data centers
- LAN replication provides rapid recovery across local servers
- Selective replication lets you choose which VMs protect
- New utilities for managing replicated virtual machines
- Full support of XenMotion and suspend/resume of virtual machines in a resource pool. Replication is maintained during this process
- Supports VMs being protected by XenServer HA
- Supports portable Storage Repositories for easy maintenance of VM metadata
- Supports iSCSI and Fibre Channel shared storage
- Supports Citrix XenServer Standard/Express Edition and Citrix XenServer Enterprise/Platinum Edition

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Replicate Any Data. Protect Any Application

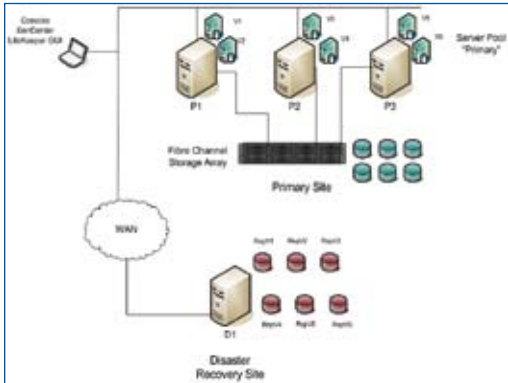


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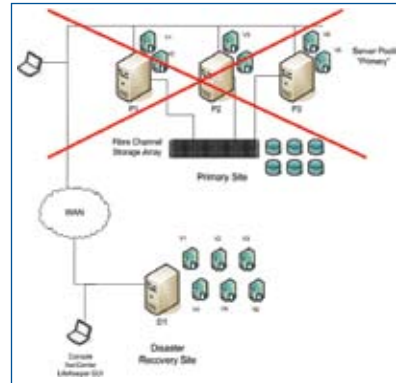
SteelEye Protection Suite for Citrix XenServer In Action

When either planned or unplanned events hit a XenServer data center, companies that have deployed SteelEye Protections Suite for Citrix XenServer are at a distinct advantage. Selected storage repositories from the resource pool are constantly replicated either locally or remotely to afford the company fast recovery from the event. Below are two diagrams that reflect the benefit for deploying a disaster recovery solution to support XenServer.



XenServer storage repositories are replicated to a disaster recovery site.

First, after having configured the server pool for replication using the SteelEye UI, IT then has the ability of administering their virtual machines through the XenCenter interface. As writes occur to the disks of the virtual machines at the primary site, these changes are replicated to the storage repositories at the disaster recovery site.



The primary site has failed and the critical virtual machines are started at the disaster recovery site.

Second, when the primary resource pool is affected by an event that interrupts normal operations, the protected virtual machines can be started at the disaster recovery site, thereby restoring normal operations.

There is very little interruption to the operations of the data center. When the event has passed, control can be easily transferred back to the primary server pool through the Xen console OS interface.

About SteelEye Technology

SteelEye is the leading provider of data and application availability management solutions for business continuity and disaster recovery for Linux and Windows and virtual environments.

The SteelEye family of data replication, high availability clustering and disaster recovery solutions are priced and architected to enable enterprises of all sizes to ensure continuous availability of business-critical applications, servers and data.

To complement its software solutions, SteelEye also provides a full range of high availability consulting and professional services to assist organizations with the assessment, design and implementation of solutions for ensuring High Availability within their environments.

SteelEye is a subsidiary of SIOS Technology, Inc.

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