SteelEye® Protection Suite for Linux Multi-site Cluster

First fully automated and integrated disaster recovery solution for Linux servers.

An important factor in the adoption of Linux to support business critical computing is the availability of proven and reliable systems management solutions. The SteelEye Protection Suite for Linux Multi-site Cluster enables businesses, large and small, to fully leverage the business value of Linux by providing a complete solution to the key requirement for business continuity during times of disaster. Alternative approaches to achieving disaster tolerance require programmatic integration for each component of the application stack being protected (servers, storage, operating system, network, application and database components).The SteelEye Protection Suite for Linux Multi-site Cluster is the first technology to combine fully-automated, application-centric shared storage clustering, wide-area data replication and recovery in a single, scalable solution.

A Complete Solution

The SteelEye Protection Suite for Linux Multi-site Cluster addresses the complex nuances of wide-area clustering, including sophisticated, granular application, database, and infrastructure component monitoring, high-speed, block level data replication, and redirection of application connectivity, on top of a unique hybrid storage model, to provide a complete solution for disaster recovery protection of Linux servers.

The SteelEye Protection Suite for Linux Multi-site Cluster

Integrated Application & Data Protection LifeKeeper performs continuous monitoring of applications, databases, servers, storage, and network infrastructure resources, while simultaneously synchronizing data changes between the primary production and target recovery environments.

Critical to the success of disaster recovery is the need to address potential data integrity issues between the production and recovery environments, and in particular the status of any databases and individual transactions at the time of disaster. LifeKeeper addresses this issue and ensures that the recovery environment is always in-sync with the production environment, regardless of distance or time of day.

Automated Detection, Flexible Recovery Upon detection of a fault condition, LifeKeeper provides the option of restarting or correcting the condition, or failing over one or more components to the recovery environment in the local cluster. Upon detection of a complete failure of the local cluster, failover to the remote site is initiated manually, using the "panic button" capability.

In a catastrophic disaster recovery scenario, such as a loss of the primary site, LifeKeeper will allow failover and bring into service, in sequence, each component of the production system, or systems, in the recovery environment. Upon full recovery, LifeKeeper continues to monitor the availability of the recovery environment and also the status of the former production environment. Should the latter come back "online" administrators can manually switch back to the production site at an opportune time. Prior to failback, LifeKeeper re-synchronizes the original production data with changes that were applied within the recovery environment.

Scalability For Utmost Availability and Investment Protection

Key Technical Features:

- Replication of file systems that are part of a standard shared storage cluster
- Automatic handling of changing replication sources in the local cluster
- Expensive Storage-Based Replication is not necessary
- Block-level mirroring of volumes below the file system level for high performance
- Synchronous and asynchronous replication of only changed data
- Graphical interface enables user to configure/monitor mirrored volumes
- Allows access to source data during mirror creation and re-sync
- Enables simultaneous creation and re-sync of multiple mirrors
- Integrated monitoring and detection of failure/communication loss
- Reliably monitor critical resources across WAN
- Switch over to remote site only in disastrous events
- Choice of full automation or manually-activated "panic button"

Platform Requirements:

- CentOS Linux
- Novell SUSE Linux Enterprise Server
- Oracle Unbreakable Linux
- Red Hat Enterprise Linux

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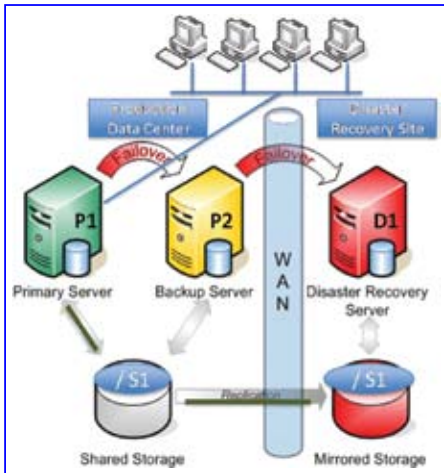**Replicate** Any Data. **Protect** Any Application

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The SteelEye Protection Suite for Linux Multi-site Cluster is a member of the SteelEye family of IT reliability and business continuity solutions. Already available, and already proven in hundreds of business, governmental and educational environments worldwide, is LifeKeeper Data Replication and LifeKeeper High Availability Clustering which individually and together provide a scalable solution for ensuring local high availability.

Users can select Data Replication as the first step in their availability implementation plan to make near-real time, block-level mirrored copies of data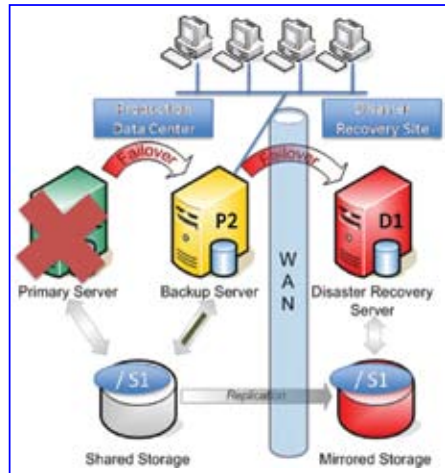 for local archival and back-up purposes. Users can then additionally implement LifeKeeper High Availability Clustering to provide automated monitoring and failover of applications and users between local servers and replicated dedicated storage or shared storage devices. SteelEye Disaster Recovery uniquely extends the "scalable availability" model for Linux users by providing a single solution technology roadmap that can continuously evolve to meet changing business requirements over time.
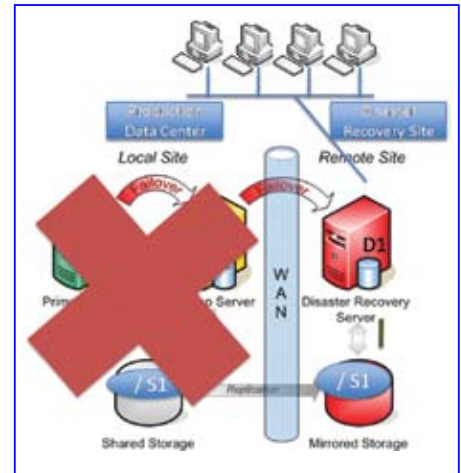
Multi-site Cluster Usage Scenario

Local Primary and Secondary Server, Remote DR Server

Primary Server Fails Over to Secondary Server

Data Center Fails Over to DR Site

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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