

Veritas Storage Foundation™ High Availability and Veritas Enterprise Vault™ Solution for Microsoft® Exchange

Advanced solution from Symantec for protection and management of critical business data

The Veritas Storage Foundation with Enterprise Vault high-availability solution for Microsoft Exchange is a comprehensive offering that delivers data and application availability and advanced email management. The solution unites three industry-leading technologies from Symantec—Veritas Storage Foundation *for Windows*, Veritas™ Cluster Server, and Veritas Enterprise Vault—to enable organizations to have confidence in the availability and manageability of their Exchange environments.

The solution provides online storage management, enabling high availability of data and optimized I/O performance across multiple hardware platforms; application monitoring, including database, network, and storage resources; and the full range of Enterprise Vault capabilities, including automated mailbox management, elimination of PST files, and flexible, policy-based email archiving and discovery for legal and compliance purposes.

Highlights

- **Availability across any distance**—Builds both local and remote clusters for disaster recovery and local availability
- **Fast recovery from logical errors**—Uses FlashSnap™ snapshots to enable fast recovery from errors and data corruption without the need for lengthy tape restores
- **No single point of failure**—Can gracefully move Exchange to an available server in the event of a failure and coordinate the movement with storage ownership because the scalable Veritas Cluster Server architecture has no “master” node
- **Tight integration with Exchange**—Offers unique integration and optimization with Exchange for increased performance and availability
- **Advanced virtual machine support**—Provides clustering support for virtual machine architectures
- **Replication integration with zero data loss DR**—Manages Exchange failover and failback with Veritas Cluster Server, including support for the Veritas™ Volume Replicator Option and other array vendors’ replication solutions
- **Automated policy-driven mailbox management**—Frees users from the frustrations of quotas while maintaining Exchange performance and reliability
- **Eliminate PST files and regain control of email**—Removes the problems of storage consumption, backup, security and stability associated with PST files
- **Archive for legal and compliance needs**—Enables archival and discovery of email to meet legal and compliance requirements

Availability across any distance

Whether the infrastructure is a local cluster, campus cluster, metropolitan cluster, or a global cluster, Veritas Storage Foundation HA *for Windows* enables local, metropolitan, and wide area high availability and disaster recovery (DR) using a single solution. Veritas Cluster Server can scale from a simple 2-node local cluster up to a 32-node cluster that spans thousands of kilometers across different IP subnets. Upon failover to a different IP network, Veritas Cluster Server updates the application's network identity so clients can quickly connect to the alternate site. Veritas Cluster Server also automates the replication takeover so that replicated storage groups are imported and replication roles are reversed.

Fast recovery from logical errors

A FlashSnap snapshot is an independently addressable volume that mirrors the production volumes. By splitting the mirror, a point-in-time image of the data is preserved. The snapshot can be restored, but that is just the first step in Exchange recovery; the transaction logs then need to be rolled forward to the point immediately before the failure. Veritas Storage Foundation HA *for Windows* automates the recovery process, resynching the production data with the most recent FlashSnap image and then restoring the transactions. The result is a much faster recovery from data corruption or logical errors than a restore from tape.

No single point of failure

Veritas Cluster Server is a highly resilient, scalable architecture in which each node in the cluster synchronizes its configuration information and status with the other nodes. As a result, there is no single point of failure—a vital

requirement for true high availability and disaster recovery. In addition, Veritas Cluster Server does not require that a majority set of nodes be online for services to continue running. Other solutions require extra server hardware to ensure that a majority is maintained after multiple failures or a site outage. By eliminating this requirement, Veritas Cluster Server gives users the flexibility to run fewer servers at a DR site relative to a primary site cluster, resulting in reduced hardware and administration expenses.

Tight integration with Exchange

The Symantec solution is uniquely integrated with Exchange. Detailed monitoring of all application resources ensures the highest levels of availability. Veritas Cluster Server manages more than just the Exchange instance; it handles all associated components, including runtime processes, network, and associated storage, ensuring a robust and graceful failover (over any distance) of all relevant resources.

Advanced virtual machine support

With server virtualization technologies, multiple virtual machines are commonly hosted on a single physical server and the need to provide highly available services increases with the use of virtualization technologies. Veritas Cluster Server provides a single solution for clustering both physical and virtual systems. With Veritas Cluster Server, administrators can monitor an application running within a virtual machine (e.g., VMware ESX) and recover it in the event of a failure. Additionally, Storage Foundation HA *for Windows* provides unparalleled support for physical-to-virtual (P2V) and virtual-to-virtual (V2V) configurations, so

organizations can protect Exchange over local or wide area distances.

Replication integration and zero data loss DR

Veritas Cluster Server combines with the Veritas Volume Replicator Option to provide a fully integrated and coordinated solution for application availability and data replication. This coordination ensures that if a failure occurs, both the Exchange application and the Exchange database can be failed over and recovered in an alternate location. Just as important, the application and data can be failed back to the original location at the appropriate time. Additionally, with the new bunker replication feature of Veritas Volume Replicator, organizations can select the ultimate data replication strategy by replicating data over any distance without losing a single transaction—a recovery point objective (RPO) of zero over any distance. While Veritas Cluster Server is tightly integrated with Veritas Volume Replicator, it also manages array-based replication technologies, including EMC SRDF and SRDF/A, EMC MirrorView and MirrorView/A, Hitachi TrueCopy, IBM PPRC, IBM MetroMirror, and NetApp SnapMirror.

Automated policy-driven mailbox management

Quotas and message size restrictions can be eliminated, and you can give users a mailbox of virtually unlimited size while the time spent dealing with mailbox housekeeping can be significantly reduced. Admin-defined policies automatically archive individual mailbox email and attachments from Exchange into online Enterprise Vault stores. Optionally, shortcuts are provided, allowing users to easily view or restore the original items transparently

through Microsoft Outlook® or through extended Web-based search functions. This capability enables Exchange to focus on handling newer information dynamically, while Enterprise Vault acts as a high-scale, long-term repository for older information. Thus server performance is dramatically improved, and users enjoy instant access to all of their email without the associated cost and management.

Eliminate PST files and regain control of email

Veritas Enterprise Vault enables migration of users' PST files to the archive repository, restoring control of email to IT and eliminating the risks associated with remote PST files. All the while, users continue to have virtually transparent access to their information. The addition of Offline Vault™ enables users to have access to their data even when not connected to the network.

Archive for legal and compliance needs

Increasingly, IT is critical to legal cases, especially in the area of eDiscovery. Enterprise Vault software works seamlessly with Microsoft Exchange 2000 Server, Exchange Server 5.5, and Exchange Server 2003 and 2007 journaling to satisfy corporate legal or regulatory retention requirements. Enterprise Vault can be configured to retain a copy of all email messages sent and received, helping to ensure that they are kept for the period of time required to meet regulatory or legal retention requirements. This high availability solution ensures that the right data is accessible when it is needed.

More information

Visit our Web site

<http://enterprise.symantec.com>

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About Symantec

Symantec is a global leader in infrastructure software, enabling businesses and consumers to have confidence in a connected world. The company helps customers protect their infrastructure, information, and interactions by delivering software and services that address risks to security, availability, compliance, and performance. Headquartered in Cupertino, Calif., Symantec has operations in 40 countries. More information is available at www.symantec.com.

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