

Veritas NetBackup™ RealTime Protection 6.5

Continuous Protection & Recovery for Priority Applications

Overview

Businesses must find better ways to protect against data loss and improve recovery times for important business applications. Recent advances in both storage and backup technologies have improved the performance and ease of backup and recovery operations. Despite these advances and lower costs for storage, many organizations struggle to find an economical way of increasing recovery points for applications that use expensive shared storage. In addition, many of these enterprise applications rely on large datasets and databases that are difficult and expensive to protect with traditional backup or snapshot methods. Businesses need a solution that allows them to improve service levels and reliability without increasing complexity or cost in the data center.

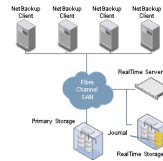
The Symantec Solution

Veritas NetBackup RealTime Protection from Symantec, a new addition to the NetBackup Platform, allows customers to eliminate the backup window for SAN based applications and to increase recovery points and improve recovery times for those applications. RealTime provides continuous data protection, by capturing all changes to application data, and helps customers eliminate potential data loss. It also enables fast disk-based recovery and granular restore capabilities to help organizations meet the most demanding recovery objectives. RealTime reduces strain on data center infrastructure by eliminating the network and server resources associated with traditional scheduled backups. Integration with Veritas NetBackup helps to eliminate the complexity and training

efforts associated with the deployment of new technologies in the data center.

Key Features and Benefits

- Continuous data protection helps eliminate potential data loss by tracking and protecting all changes to application data
- Recovery from RealTime can be performed using the NetBackup recovery console, allowing for fast and simple recovery of disk-based images
- Off-host backups to disk or tape can be coordinated by NetBackup at any time without impacting application performance
- Space-efficient TimelImages provide storage independent snapshots that can be used for testing, development or reporting



RealTime uses a dedicated server/storage architecture with a journal

Continuous Data Protection

NetBackup RealTime Protection provides application and database protection by continuously streaming a copy of every changed block of data to a lower tier of storage under the control of a NetBackup RealTime server. RealTime maintains a journal of all changes during the protection period to give administrators the ability to

recover critical applications to any point in time, thereby reducing potential data loss. Administrators can also schedule frequent application-consistent recovery points using NetBackup policies and agents. Based upon a policy driven request, RealTime places a marker in the data stream to ensure it has a known and application consistent recovery point. This enables backup administrators to cost-effectively meet recovery point objectives that are less than 24 hours.

Fast and Simple Recovery with NetBackup

NetBackup application and database agents enable a consistent application recovery experience and provide the ability to perform recovery of a full application image or an individual object or file. Multiple recovery options provide customers with the ability to restore the right level of information to the right point in time. Integration with NetBackup simplifies both recovery and policy administration. Backup administrators use standard NetBackup policies and agents to protect applications with RealTime. During recovery operations, a backup administrator uses NetBackup to select a recovery image. Once selected, the entire application or any individual data within the image can be recovered.

Integrated Off-host Backups

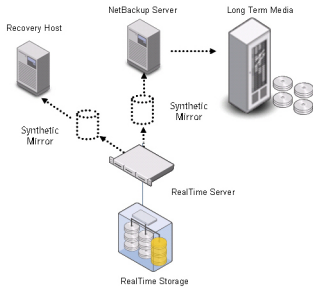
NetBackup RealTime can present snapshots called Timelmages to NetBackup servers. NetBackup uses these Timelmages which reside on storage under the control of NetBackup RealTime as the source for off-host backups, eliminating any burden on production server resources. By

using off-host storage resources for backup, organizations eliminate the need to burden production applications with the impact of full or incremental backups. Requirements for lengthy backup windows can be eliminated completely. And because NetBackup RealTime can retain days or even weeks worth of protected data with low storage requirements, organizations can use RealTime as the primary protection method for all near-term restore operations. With RealTime organizations can consider reducing the number and frequency of full or incremental backups to tape, both simplifying backup operations and reducing the infrastructure costs of backup and recovery.

Timelimage

NetBackup RealTime Timelmages are point-in-time copies that are an excellent alternative to traditional snapshot technologies for backup and recovery. Symantec uses the term Timelimage because RealTime creates something of greater value than a traditional snapshot. A RealTime Timelimage represents a combination of a traditional array mirror, separate from production storage, and a journal of changes. By contrast, traditional array-based snapshot technologies require a similar tier of storage for data protection (snapshots) which increases the cost for additional recovery points or applications protected. With NetBackup RealTime, customers can reduce the cost of reliable recovery and data protection by using lower tiers of shared storage on different platforms for these point-in-time copies. Customer can also make these snapshots, or Timelmages, instantly available for reporting

or testing and development without impacting product storage or the application.



Other Features & Benefits

- Application intelligence through NetBackup application agents helps to better ensure application consistent backups and more reliable recovery of information.
- Consistency markers can be scheduled or inserted manually by administrators prior to application events to provide known recovery points helping to speed recovery times.

System and Platform Support

NetBackup RealTime Protection is a software appliance that can be installed on a broad range of server/storage combinations. In addition to a server with RealTime software, protection requires a NetBackup or RealTime client. The following is a list of supported operating systems and applications (at the time of publishing).

- Microsoft Windows Server 2003, 2008
- Sun Solaris 9, 10
- Microsoft Server Exchange 2003, 2007
- Oracle Databases
- SAP

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Symantec is a global leader in providing security, storage, and systems management solutions to help businesses and consumers secure and manage their information. Headquartered in Cupertino, Calif., Symantec has operations in more than 40 countries. More information is available at www.symantec.com.

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