

NetBackup RealTime Protection 6.5

Advanced Recovery for Critical Applications

Businesses must find better ways to protect against data loss and improve recovery times for mission critical applications. Recent advancements in disk-based data protection technologies have improved the speed and throughput of backup and recovery operations. However, most organizations still struggle to find practical methods of increasing recovery points to more than once per day. Critical applications are also burdened with alarming growth rates that make backup and recovery difficult without increased strain on data center infrastructure. Businesses need advanced recovery technologies that can improve recovery objectives and reduce the impact on data center infrastructure.

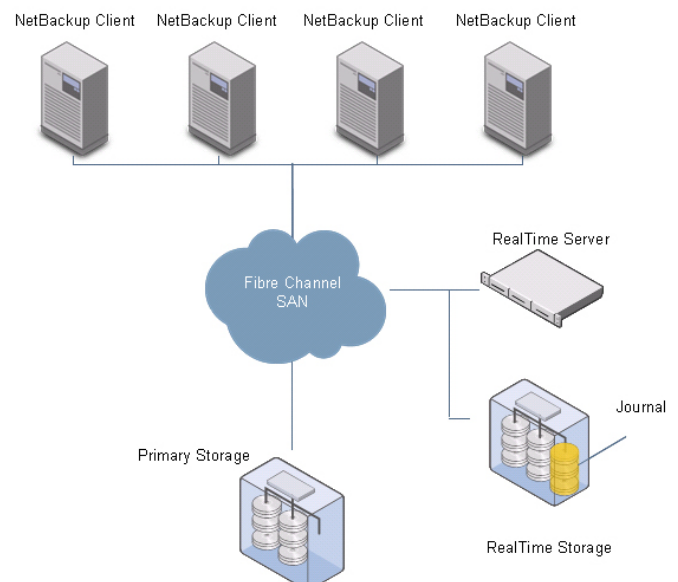
The Symantec solution

NetBackup RealTime Protection is a new addition to NetBackup's portfolio of disk-based recovery technologies that offers advanced recovery for mission critical data center applications. RealTime provides continuous data protection by capturing all changes to application data and helping customers eliminate potential data loss. It also enables fast disk-based recovery and granular restore capabilities to help organizations meet even the most demanding recovery objectives. RealTime reduces strain on data center infrastructure by minimizing local network traffic and eliminating the need for backup windows normally associated with regularly scheduled backups. And unlike competing continuous data protection offerings,

RealTime is the only one that is fully integrated with Symantec's industry leading NetBackup software.

Key Features and Benefits

- Continuous data protection helps eliminate potential data loss by tracking and protecting all changes to application data
- Fast and simple recovery with NetBackup recovery operations allow fast recovery from disk-based images
- Integrated off-host backups help avoid application performance impact during backup cycles with NetBackup managed off-host backups directly from the RealTime Server
- Space-efficient TimeImages provide storage independent snapshots for cost effective use of storage assets



RealTime uses a dedicated storage/server architecture with a journal of application changes to provide continuous data protection.

Continuous data protection

NetBackup RealTime Protection protects applications and databases by continuously streaming changes to dedicated storage assets where they are protected for a period of time set by administrators. 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 eliminating potential data loss. Administrators can also schedule frequent recovery markers in the stream of application changes to ensure they have known recovery points that represent consistent points in time for fast reliable recovery of critical applications or databases.

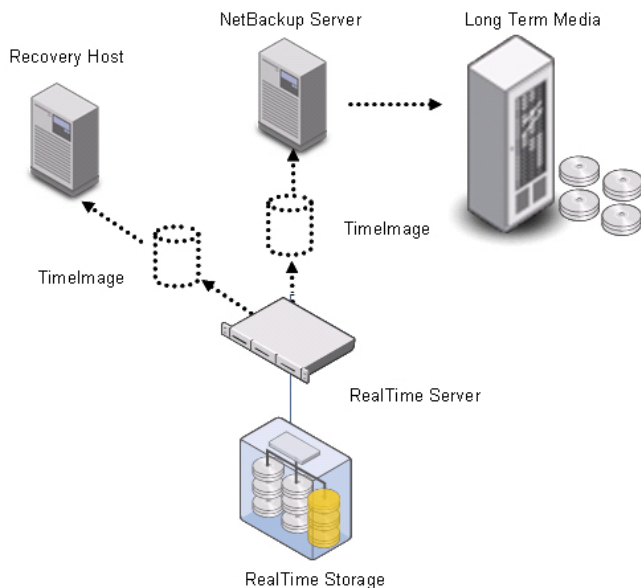
Fast and simple recovery with NetBackup

NetBackup delivers a smooth recovery experience with the ability to perform recovery of a full application image or granular recovery of individual application objects. This gives RealTime users the ability to restore the right level of information to the right point in time using the NetBackup interface. NetBackup is used to create policies for applications protected by RealTime. Once a policy is in place, administrators can follow standard NetBackup workflows for backup and recovery tasks. During recovery operations, administrators use NetBackup to select a previously marked RealTime image from which to restore data. Once an image is selected, administrators can restore the entire application or application objects from within the recovery image. Additionally, NetBackup application agents for Oracle and Exchange help ensure recovered

images and objects are consistent upon recovery to reduce overall recovery times and uncertainty.

Integrated off-host backups

RealTime can present snapshots called Timelmages to NetBackup servers. Timelmages are used by NetBackup as the source for off-host backups, instead of production server resources. This is similar to the way NetBackup performs off-host backups with more traditional snapshot technologies. 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 RealTime can retain days or even weeks worth of protected data with low storage requirements, organizations can use RealTime as the primary recovery vehicle for all near-term restore operations. As a result organizations may 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.



Timelimages are point-in-time images that NetBackup can use for off-host backups or fast recovery directly to a recovery server.

Space-efficient snapshots

RealTime Timelimages are point-in-time copies that are an excellent alternative to traditional snapshot technologies for backup and recovery. Timelimages provides storage savings with space-efficient snapshots that require no additional storage. By using existing RealTime storage assets and a journal of application changes, RealTime can create point-in-time copies that represent any point tracked by RealTime journal. Additional storage savings can be achieved through RealTime's heterogeneous storage architecture that allows organizations to use lower tiers of storage instead of expensive storage often required with array based snapshot technologies. RealTime Timelimages are instantly available to proxy servers where the images

can be used for backup and recovery or any number of activities that require copies of production data.

Other features & benefits

Automated discovery & recovery of host assets

helps organizations easily identify storage assets associated with critical applications to facilitate convenient protection setup and recovery.

Application intelligence through NetBackup

application agents for Oracle Databases and Microsoft Exchange helps protect application consistency for reliable recovery of critical database.

Consistency markers

can be scheduled or inserted manually by administrators prior to application events to provide known recovery points helping to speed recovery times.

Multi-host consistency protection

gives administrators the ability to protect federated applications that have interdependencies between separate physical or virtual servers

High performance architecture

makes use of high speed SAN technologies and performance protection features to help ensure maximum performance of protected applications at all times

Production rollback

helps organizations quickly restore production data to any point in time by restoring only data that has changed between the time of failure and the time of recovery

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.

RealTime client platform support*

- Microsoft Windows - Windows Server 2003
- Unix - Solaris 9,10; IBM AIX 5.3; HP-UX 11.23
- Linux - SUSE Linux Enterprise Server 10

RealTime application agent support*

- Microsoft Exchange 2003, 2007
- Microsoft SQL Server 2005
- Oracle Database

* Always check the NetBackup RealTime Protection compatibility list on the Symantec support site for the latest information on supported versions and patch levels.

More information

Visit our Web site

<http://enterprise.symantec.com>

To speak with a Product Specialist in the U.S.

Call toll-free 1 (800) 745 6054

To speak with a Product Specialist outside the U.S.

For specific country offices and contact numbers, please visit our Web site.

About Symantec

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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