

Symantec NetBackup™ 7.6

What's New and Version Comparison Matrix

Solution Overview: Data Protection

Overview

Symantec delivers Better Backup for a Virtual World with the release of NetBackup™ 7.6. Traditional backup and recovery won't work as enterprises adjust and adapt in the virtual world. Symantec NetBackup™ with V-Ray Technology delivers the performance, automation, and manageability enterprises need to scale to thousands of virtual machines and petabytes of data without installing another data center point product that increases complexity and risk. For over a decade, the world's largest enterprises have trusted NetBackup to protect their information on a multitude of virtual and physical platforms with their choice of disk, tape, snapshot, or cloud storage. NetBackup 7.6 extends these capabilities and delivers virtual data protection right for the enterprise.

Features new to Symantec NetBackup™ 7.6

Virtualization

Feature	Description/Benefit
NetBackup Accelerator for VMware®	NetBackup Accelerator helps you eliminate full backups. By leveraging integration with VMware® Changed Block Tracking (CBT), only changed blocks of data are backed up. Those deltas are then combined with existing blocks of data and synthesized into a new full backup image. The result is a full backup at the cost of performing an incremental backup or 35x faster than before.
NetBackup Replication Director for VMware	Protect 300 virtual machines in 300 seconds. NetBackup further enhances its snapshot management capabilities with Replication Director for VMware in NetBackup 7.6, which allows you to leverage array-based snapshots to protect your virtual environments, without giving up any level of recoverability. Currently Replication Director supports NetApp® snapshot technology, including SnapVault® and SnapMirror®, with other array-vendors to be supported in the future. See the hardware compatibility list for more details.
NetBackup Instant Recovery for VMware	400x faster recovery of VMware vSphere™ virtual machines. NetBackup Instant Recovery for VMware in NetBackup 7.6 allows you to power on your virtual machines from within NetBackup storage, making them 100 percent available in vSphere. Once powered on, the virtual machine can be migrated back to production storage without interruption. This means much greater availability of your virtual servers and information—and much less downtime, saving you time and money.
VMware vCloud™ Director Support	With direct integration to the VMware vCloud™ Director API, NetBackup is able to automatically discover and protect newly provisioned VMs in both public and private vCloud deployments. Users can further leverage the award-winning NetBackup V-Ray technology to enhance recoverability as well—where single VMs, vCloud data centers, vApps, and organizational restores can be conducted from a single place. This enables data center transformation without the risk of unprotected data or systems.

Databases

Feature	Description/Benefit
Oracle® intelligent policy framework for NetBackup 7.6	Information gathered about your Oracle instances is sent and stored in the NetBackup catalog. From there, you can construct backup policies based on that information and customize other aspects such as when to backup the database, when to backup the archive logs, etc. The scripts necessary to run the Oracle backups are then automatically generated—without having to manipulate anything using Recovery Manager (RMAN). This means quicker backups that can be deployed in an automated fashion.

Disaster recovery

Feature	Description/Benefit
Targeted Auto Image Replication (AIR)	Select which domains to replicate to and utilize the retention policies of those target domains. Users will be more efficient with available resources and more flexible with their disaster recovery plans to better satisfy their requirements.
Physical to virtual (P2V) conversion	With a single click, users can recover physical servers to virtual machines, providing tremendous flexibility at an off-site disaster recovery location, which may not have identical server hardware available, or for leveraging existing and available production resources instead of maintaining a dedicated disaster recovery (DR) site. Those recovered servers can remain as virtual machines or can be converted back to physical servers as needed using Bare Metal Restore (BMR).

Deduplication

Feature	Description/Benefit
Media Server Deduplication (MSDP)	The new NetBackup Intelligent Deduplication architecture in NetBackup 7.6 delivers faster, more resource-efficient, and more reliable deduplication performance. Included in the update is a self-healing architecture that further extends and maintains data integrity. Combined with better housekeeping and other general improvements, you get a performance boost end to end. Now, a single integrated NetBackup Appliance can provide up to 39.9 TB/hr of effective throughput while supporting 144 incoming streams. NetBackup 7.6 deduplication pools also provide up to 63 percent faster performance for restores and tape-out. ¹

NetBackup Appliances

The new Symantec NetBackup™ 5230 Integrated Backup and the Symantec NetBackup™ 5030 Deduplication Appliances were generally available earlier this year.² The new hardware platform extends the product life cycle of NetBackup appliances and delivers:

- Greater performance: Increased backup deduplication rates
- Expanded capacities: NetBackup 5230 scales from 4 TB to 76 TB usable capacity
- Increased support: NetBackup 5230 protects up to 4,800 virtual machines in a single backup systems

Management simplification

Feature	Description/Benefit
OpsCenter enhancements in NetBackup 7.6	<p>Appliance monitoring: Monitor, report, and alert for all appliance and traditional master servers, appliance-specific reporting, and improved hardware monitoring with phone-home capabilities</p> <p>Monitoring improvements: Third-party cloud storage monitoring for S3, Rackspace®, and Atmos, as well as alert grouping, improved getting-started process</p> <p>Compatibility improvements: Windows 2012 Server Support, Web services infrastructure on every NetBackup 7.6 master server</p> <p>Access control: Integration with LDAP and Microsoft Active Directory® user group-based authentication</p>
Storage lifecycle policies scheduling for secondary operations	Scheduling gives customers greater flexibility and control over when secondary operations occur. A single schedule can be used with multiple storage lifecycle policies (SLPs) and different copies can be made at different times—for example, duplication can be delayed until the source copy is due to expire.

1. Internal Testing: NetBackup 5230–2.6– Deep Dive, Peak Testing at 97.7 percent dedupe. Conducted by: Nicholas Nelson, Sr SQA Engineer, Backup and Recovery Engineering, December 4, 2013.

2. New releases of NetBackup software are typically available on the appliances via an upgrade patch within one quarter of release of the software.

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Feature	Description/Benefit
Windows® 2012 support	Windows 2012 support is extended even further in NetBackup 7.6 to include many features and functionality to help you continue to build out and modernize your IT environment and take advantage of the latest Windows software capabilities, while making sure you're still comprehensively protected with NetBackup.

For a complete list of all the enhancements contained in NetBackup 7.6, please refer to <http://www.symantec.com/business/support/index?page=content&id=TECH59978>.

Feature	7.0	7.1	7.5	7.6
Virtualization				
NetBackup Accelerator for VMware				Y
Instant recovery for VMware				Y
NetBackup Replication Director for VMware				Y
vCloud Suite Integration				Y
Integrated physical to virtual server conversion (P2V)				Y
Support for VMware vSphere™ 5.1			Y	Y
Granular recovery for Exchange, SharePoint, and SQL Server virtual machines			Y	Y
Automatic discovery of new or moved virtual machines		Y	Y	Y
Media server load balancing		Y	Y	Y
Guided virtual machine restore		Y	Y	Y
Block-level incremental backup	Y	Y	Y	Y
Full support for VMware vStorage™ APIs for Data Protection	Y	Y	Y	Y
Deduplication				
Self-healing architecture (data integrity verified online and free space reclaimed dynamically)				Y
Storage lifecycle policy-based scheduling of copy creations				Y
Targeted Auto Image Replication				Y
Replication Management				
Expanded support for virtual environments on network attached storage (NAS) data stores				Y
Support for policy-based management of backup, snapshots, and replication (file systems on physical NAS)			Y	Y
Cloud				
Third-party cloud storage monitoring	Y	Y	Y	Y
Media server encryption to cloud			Y	Y
Throughput metering			Y	Y
Bandwidth throttling			Y	Y
Integration with Amazon Web Services™			Y	Y
Integration with Rackspace			Y	Y
Integration with AT&T			Y	Y
Cloud-based backup	Y	Y	Y	Y

More Information

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<http://enterprise.symantec.com>

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

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

About Symantec

Symantec protects the world's information, and is a global leader in security, backup, and availability solutions. Our innovative products and services protect people and information in any environment – from the smallest mobile device, to the enterprise data center, to cloud-based systems. Our world-renowned expertise in protecting data, identities, and interactions gives our customers confidence in a connected world. More information is available at www.symantec.com or by connecting with Symantec at go.symantec.com/socialmedia.

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