

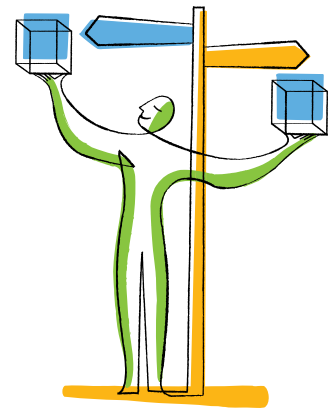


NetApp®

Datasheet

NetApp SnapProtect Management Software in a Virtual Server Environment

Speed up and simplify backup and recovery



KEY BENEFITS

Accelerate Backup and Recovery

Hundreds of VMware® virtual machines can be protected in minutes.

Scale to Protect Thousands of Virtual Machines

Protect even the largest virtual server environments by using NetApp® Snapshot® copies for your backup strategy.

Simplify and Consolidate Management

Create, manage, and move Snapshot copies between disk and tape, using a single interface.

Recover with Precision

Restore precisely what you need with application-aware recovery at the file or image level.

Lower the Cost of Protecting Virtual Infrastructure

Back up virtual server data for less by using built-in storage efficiencies that can reduce disk capacity up to 90%.

The Challenge

As infrastructures are virtualized, businesses are getting more out of their IT resources and compute environments, responding faster to business needs. However, a level of complexity is introduced that makes it challenging to meet backup and recovery service levels. This is leading IT pros to consider new approaches to protecting information and applications that reside in VMware environments.

Virtual server proliferation can result in virtual machines (VMs) being left out of the backup rotation. In addition, backing up multiple VMs on a single physical system can result in resource overload. Snapshot technology resolves these issues quickly and efficiently, filling the protection gap left by slower, more compute-intensive backup methods. The only wrinkle is that snapshot copies aren't typically integrated into the end-to-end backup and recovery processes, leaving IT to manage snapshot operations and backup in parallel.

What is needed is a solution that combines snapshot copies and replication with full-scale backup and recovery processes. In this solution, snapshot copies would deliver virtualization and application awareness with the ability to provide file- or object-level recovery.

Once captured, snapshot copies can easily be moved to tape for long-term retention, or they can be used for e-discovery purposes.

The Solution

Accelerate and simplify the way you protect virtual infrastructures with NetApp SnapProtect™ management software. SnapProtect software combines NetApp Snapshot, replication, and storage efficiency technologies with tape in a single solution to deliver faster backup and recovery, simplified management, and lower long-term costs.

Combining management of Snapshot creation, replication, and movement to tape introduces a more effective backup strategy. It also enables you to quickly find and move Snapshot copies across storage tiers, depending on your cost, compliance, and recovery objectives.

SnapProtect software is virtualization- and application-aware, providing automatic VM discovery to prevent accidental data loss. For VMware, SnapProtect software uses integrated vStorage APIs. And because SnapProtect software leverages NetApp Data ONTAP® for deduplication and other storage efficiency technologies, it can help you control costs.

“NetApp SnapProtect for virtual infrastructure allows you to build a flexible and efficient shared infrastructure today as your foundation for future-ready IT.”

Faster Backup and Recovery for Your Virtual Server Infrastructure and Application Data

NetApp SnapProtect backups and restores are faster because they use Snapshot copies to protect the datastores that contain VMs. SnapProtect software works with applications running in the VMs to quiesce the data set so no data is lost. The process is rapid, completing in seconds to minutes, so the impact on production operations is limited.

Benefits include:

- Near-real-time backup of VMs
- Multiple recovery points each day, minimizing data loss
- Minimal impact on virtualized environments
- Improved recovery time and response times with granular restores
- Improved e-discovery—find specific files quickly and easily

Unified Management Solves the Challenges of Protecting Virtual Server Infrastructures

SnapProtect software is your hub for backup and recovery in virtualized server environments. It provides a common set of tools for recovering applications and data, VMs, or entire datastores. Policy-based settings allow automated data management, including discovery and protection of VMs.

- Scales to support thousands of VMs
- Rapid search for files and images using catalog and index functions
- Comprehensive reporting of status, including when backups are accessed and by whom
- Unified management across disk and tape simplifies IT tasks and saves time
- Built-in storage resource management uses data collected by the backup to provide analytics about data types, growth trends, and cost metrics, down to the VM level if necessary

For compliance requirements, SnapProtect software can be used in conjunction with NetApp SnapLock[®] software available in Data ONTAP. SnapLock, our WORM (write once, read many) storage feature, when properly configured, is designed to enable compliance with SEC 17a-4, Sarbanes-Oxley, HIPAA, and other regulations. SnapLock does not require a separate infrastructure and can be activated on any NetApp system, enabling compliant and noncompliant data to coexist in the same unit. SnapProtect software can also manage and configure highly efficient NetApp SnapMirror[®] replication policies for greater protection against data loss.

Application-Aware Granular Recovery Capabilities

Recover application data to a known good state with the SnapProtect application-aware features, which integrate with major enterprise applications and databases. Our integrated approach streamlines the process of protecting application-specific data, reducing the number of steps required to restore applications and associated data in complex virtual server infrastructures. When a backup occurs, SnapProtect software works with your applications to confirm that all data captured by the Snapshot copy is in a known, consistent state. For restores, SnapProtect software gives you a view into the backup so that you can recover just what you need.

- Recover at any level of granularity: VM, VMware Disk (VMDK), Virtual Hard Disk (VHD), or VM guest files as needed
- Application-specific agents protect Oracle[®], SAP[®], DB2, Exchange, SharePoint[®], and SQL Server[®]
- Quickly identify and load database tables, mailboxes, documents, or specific data objects
- Easily recover applications and data from any data store or storage tier on which they reside

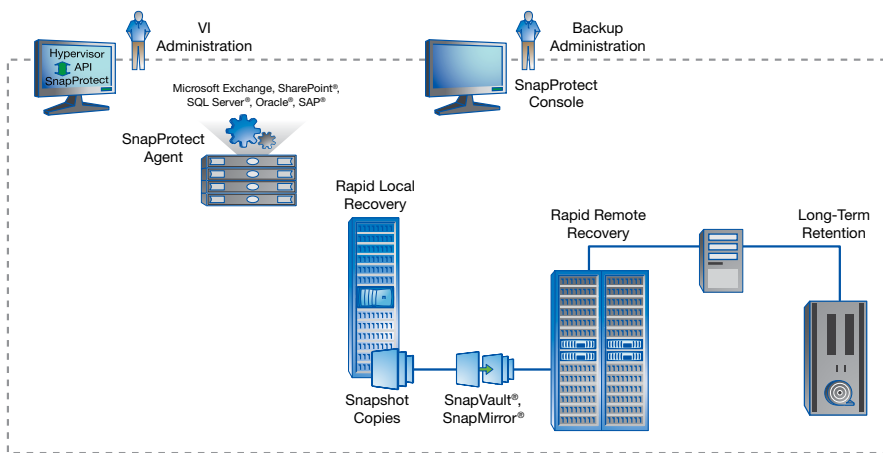


Figure 1) End-to-end backup and recovery for virtualized environments

Lower Costs and Realize the Full Benefit of Your Virtual Servers

NetApp helps you increase the value of shared infrastructures with an efficient and flexible shared storage platform. Reduce capacity requirements for backup by as much as 90% and reduce traffic over busy networks by using NetApp solutions. NetApp FAS and V-Series systems include a variety of storage efficiency technologies designed to minimize the cost of implementing disk-based backup so you can protect more of your data on reliable, high-speed disk for longer. NetApp Integrated Data Protection delivers enterprise-level backup, disaster recovery, high availability, and compliance with a 42% risk-adjusted ROI over 3 years.

With NetApp you can:

- Reduce backup sizes by using Snapshot copies that store only new or changed blocks
- Significantly minimize network usage with thin replication
- Consolidate and use less storage by leveraging NetApp deduplication and thin provisioning
- Use NetApp RAID-DP® in combination with high-density disks for better protection at a lower cost

- Save beyond backup: Read about the NetApp Virtualization Guarantee Program (netapp.com/us/solutions/infrastructure/virtualization/guarantee), which guarantees that you will use 50% less storage in your overall virtualized environment with NetApp compared to a baseline of traditional storage.

Experience better protection for application data and virtual infrastructures, all managed from the SnapProtect unified platform, which lowers costs while minimizing risk.

NetApp SnapProtect leverages the best capabilities of new and existing backup technologies to improve service levels and minimize risk of data loss. SnapProtect software protects virtual servers with minimal impact on production operations and scales to handle even the most demanding virtual server environments. Application-aware backups and object-level restores in densely consolidated virtual infrastructures deliver better response times. This combines with the ability to do full-scale backup and recovery from a single interface, saving time and simplifying protection of your virtual data assets.

NetApp SnapProtect allows you to build a flexible and efficient shared infrastructure today as your foundation for future-ready IT.

Keep up with NetApp SnapProtect technology enhancements. Take advantage of the NetApp Software Support Plan for access to future software updates.

About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

Go further, faster®



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