

Quest vReplicator

Disaster Recovery for Virtual Systems That Is Simple, Fast and Affordable

Your decision to deploy virtual systems at a disaster recovery (DR) site makes sense because they reduce infrastructure costs and the footprint. Provisioning equipment at a DR site is only the first step, however. You've still got to move the virtual machine (VM) data you need to support recovery at the site –and do it quickly, efficiently and economically. Tape-based methods for moving data are burdensome to manage, involve costly media, and are prone to human error. Additionally, traditional data replication methods require investments too large for small environments, because they're either embedded in pricey external storage or they're agent-based (which means deployment on every guest).

So how can you make disaster recovery affordable? The answer is data replication that's purpose-built for virtual environments to reduce costs, save time, and use fewer resources.

Image-Based Replication That's Purpose-Built for VMware Systems

Quest vReplicator – part of Quest's market-leading, image-protection software portfolio — was built specifically for creating exact replicas of VM images across local and wide-area networks (LANs and WANs). It allows you to avoid dependency on tape-based methods for your DR, as well as eliminate expensive and inefficient traditional replication methods. vReplicator gives you simple, fast DR for VMs -- including restores for all types of data held in the image at your disaster site. Plus, it allows you to centralize VM images from remote sites for easier, faster data protection.

BENEFITS

- Eliminates inactive blocks from scans and transfers for fast, resource-efficient replication of VM images
- Identifies and resolves previously failed replication passes automatically
- Improves reliability of disaster recovery systems
- Reduces human error and costs arising from misplaced or over-written tapes
- Improves recovery point and recovery time objectives (RPO and RTO)
- Lowers network costs and CPU/IO resource consumption, compared to traditional replication methods
- Provides more deployment options for quickly creating replica VM images where you need them
- Reduces the time to complete periodic DR walk-through testing
- Offers unmatched performance and more scalability options than alternatives
- Comes with world-class service and support



Based on a track record of innovation, vReplicator replicates VMs in many-to-many deployments for disaster recovery that is simple, fast and affordable.

With vReplicator, you can perform recovery of systems and data at a recovery site in the time you spend booting the replica VMs. Use vReplicator for fast DR that is simple to manage in virtual environments, and that lowers your resource costs to better match your budget.

Features and Benefits

Active Block Mapping (ABM), patent-pending — Eliminates inactive and white space blocks from replicated Windows guest images to speed replication and to reduce network and storage requirements.

Change Block Tracking (CBT) — Eliminates the time required to scan for changed blocks in guest images on vSphere hypervisor systems, to speed backup and replication jobs.

Delta-Based Replication — Transfers only changed data blocks to dramatically speed replication and reduce network requirements.

Delta Block Data Synch — Compares the production VM with its replica image and resolves any differences by sending only the delta blocks; this feature is particularly useful for enabling more flexible alternatives for initial deployment that avoid transfer of all data across the network, and for re-synch of data following network or system failures.

Full, Incremental and Hybrid Replication — Provides the full range of options required to replicate images effectively and efficiently, over local and wide-area networks (LANs and WANs).

Many-to-Many Replication — Provides one-to-one, one-to-many and many-to-one configuration support for replication streams of the same image to combine local and wide-area disaster recovery options.

Automated DR Test Support — Automates the steps in the DR test process to avoid delays and help complete walk-through perhaps for the first time in your environment.

Thin Disk Support — Supports vSphere thin disk provisioning, to reduce network and storage space requirements.

Advanced Encryption Standard (AES)-256 — Secures protected images block by block on the VMware host as they are read so they are also secure over the network and in the backup repository.

Agent-less Job Execution — Uses binary injection at run time on VMware ESX hosts to eliminate the administrative burdens of license tracking and maintenance upgrades.

Advanced Savepoint Management — Allows you to manage and use multiple point-in-time (PIT) copies of replica images for precise disaster recovery.

Direct-to-Target (D2T) Architecture — Distributes job execution and movement of data to improve protection performance and ensure seamless scalability.

Remote Management — Lets you manage data protection jobs through a central console over LAN and WAN connections for control across all systems and sites in an environment.

About Quest Software, Inc.

Quest simplifies and reduces the cost of managing IT for more than 100,000 customers worldwide. Our innovative solutions make solving the toughest IT management problems easier, enabling customers to save time and money across physical, virtual and cloud environments. For more information about Quest go to www.quest.com.

ADDITIONAL INFORMATION

"In May 2010 Aberdeen surveyed over 180 organizations about their experiences with disaster recovery, their steps to reduce the impact and the technologies they used to reduce limit the costs. No other technology or process had as much of a positive impact on downtime as image-based capability!"

— Dick Csaplar, Senior Research Analyst
Virtualization and Storage
Aberdeen Group

Add-On and Upgrade Options

vRanger Standard — Add vRanger Standard for SMB backup and recovery of VM images and manage it from the vReplicator console.

vRanger Pro — Upgrade to vRanger Pro for these added features: Linux FLR, full catalog, one-step catalog recovery, as well as LAN-free backup and restore to complement seamless replication with vReplicator. vRanger Pro is required in environments with more than 10 CPUs.

Physical System Protection — Add Quest vConverter to enable backup, replication and recovery of converted physical system images.

Upgrade to vEssentials or vEssentials Pro — Get a single package of multiple Quest products at a reduced price, tailored for SMB, mid-tier or enterprise environments, depending on your requirements.

System Requirements:

- Hypervisor support for replication that includes VMware ESX 3.x-4.x platforms
- Any guest VM supported by VMware
- Storage support using CIFS, SFTP, NFS and FTP
- API support that includes vCenter Server, vStorage, Microsoft Windows, and Quest Software vAPI

Operating Requirements:

- Server: Microsoft Windows XP, 2003-2008, Vista and Windows 7; 32- and 64-bit dual core, 1GB RAM (2GB recommended), > 4GB free disk space
- Database repository: SQL Express 2005-2008, SQL Server Management Studio Express 2005
- Licensing: Each physical CPU socket on ESX host source requires 1 CPU license (quad CPU ESX host requires 4 CPU licenses), unlimited number of cores



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