

Whitewater Appliances and Quest Software vRanger

Optimize cloud backups of Quest vRanger VM environments

Virtual machine (VM) environments have helped companies consolidate infrastructure to greatly reduce capital and operational costs, as well as improve business agility. With these benefits, however, come new levels of complexity. As a result, VM environments introduce new challenges concerning how to protect and recover them in the event of a disaster. Many enterprises are turning to specialized data protection applications such as Quest Software® vRanger to better protect virtualized environments, but even with these innovative solutions, many organizations continue to struggle with the costs and challenges of tape technology and off-site tape vaulting. Cloud storage has become a popular solution to address these issues and provides an elastic, pay-as-you-go storage pool that significantly reduces costs and improves disaster recovery capabilities. Riverbed® Whitewater® cloud storage gateways and Quest vRanger combine to unlock the benefits of cloud storage for the protection of VMs.

Riverbed Whitewater cloud storage gateways

Riverbed Whitewater cloud storage gateways allow organizations to eliminate tape, streamline administration, reduce costs, and improve disaster recovery readiness by leveraging the scalability, flexibility, and pay-for-use pricing of cloud storage.

Whitewater gateways secure, optimize, and accelerate the backup and recovery of VMDK files to the cloud without changes to the existing infrastructure. With Whitewater, vRanger customers can leverage cloud storage services from Amazon Web Services S3, AT&T Synaptic Storage as a Service, Microsoft Windows Azure, Nirvanix Cloud Storage Network, Rackspace Cloud Files, and clouds based on EMC Atmos or OpenStack (Swift) object storage, and enjoy the benefits of simple configuration, faster data transfers, and built-in security.

By leveraging Riverbed's industry-leading deduplication, compression, and optimization technologies, Whitewater gateways shrink data set sizes by 10 to 30 times, substantially reducing cloud storage costs and accelerating data transfers. This massive reduction in data sets allows a single gateway to replace over a petabyte of data stored on tape.

Whitewater safeguards data during transmission and at rest using secure socket layer V3 (SSLv3) technology and strong, AES 256-bit encryption. This dual layer of security makes sure that sensitive data is protected end-to-end.

Disaster recovery capability is greatly improved by secure off-site copies of VMs stored in the public cloud. By leveraging the pay-for-use pricing model of the public cloud, redundant hardware, power, cooling, and hosting costs are a thing of the past. VMs stored in the cloud are available anywhere with an Internet connection to provide fast recovery should the unexpected occur.

BENEFITS

Key benefits of the Whitewater and Quest Software, vRanger solution:

- Quickly protect virtual machines, eliminate tape, improve disaster recovery capabilities, and reduce storage and administration costs.
- Whitewater is vRanger-aware, which improves optimization and network throughput and reduces storage consumption.
- vRanger enables recovery of an entire VM or individual object from any application or file system—all from the same image-level backup.
- Whitewater's industry-leading deduplication shrinks data sizes by 10 to 30 times creating substantial cloud storage cost savings.
- Dual-level encryption ensures that all data is protected end-to-end. Whitewater gateways protect data during transmission with SSL v3, as well as at rest using 256-bit AES encryption.
- Easy integration into existing vRanger infrastructures without changes to the existing infrastructure, policies, or schedules.
- Replace over a petabyte of tape with a single Whitewater gateway.



Quest Software vRanger

vRanger is the next step in the evolution of the leading backup solution designed exclusively for the virtual infrastructure. vRanger captures the complete VM image (including the OS, patches, and applications) and transfers the archive (full, incremental, or differential) to a configured data repository. These image-level backups can be restored in a matter of minutes rather than the hours required by legacy file-level solutions.

vRanger is designed to integrate with VMware Virtual Infrastructure and vSphere at the API level, rather than through complicated scripting. With simplified vCenter and ESX Server integration, vRanger can enumerate and display your virtual environment the way you are accustomed to seeing it. vRanger will also track and adapt to vMotion activity to avoid disruption to scheduled jobs.

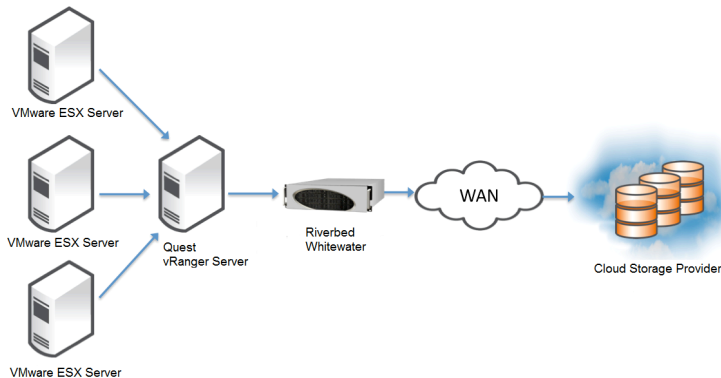
vRanger provides better data protection using less resources. vRanger's image-level backups allow for simple, portable archives that can be restored with a few clicks of the mouse. The improved File Level Recovery (FLR) engine lets you browse archives and recover files from archives instantly.

Extend Quest Software vRanger backup capability to the cloud with Whitewater gateways

Whitewater gateways greatly reduce the expense and time required to complete offsite backup and restoration jobs with Quest vRanger. This solution pairing enables customers to take advantage of inexpensive, public cloud storage over a WAN link and eliminate the need to maintain local storage, and additional backup infrastructure in a distributed VMware environment.

Restoring from disasters typically spans many days to request media retrieval, wait for delivery, search for data that needs restoration, and recover data. With Whitewater, all restores from the cloud leverage industry-leading deduplication and WAN optimization techniques to dramatically accelerate the recovery of anything from a file to an entire VM image or more, reducing recovery time from days to hours.

Typical Riverbed Whitewater and Quest vRanger deployment



About Quest Software

Quest Software is a highly innovative company focused on helping organizations simplify and reduce the cost of managing IT. Using Quest Software, users can tackle the toughest IT work easier and faster – and save their organizations a lot of money. Quest software is focused on technology innovation that delivers real value and cost savings, fast. For more information, visit <http://www.quest.com/>.

About Riverbed

Riverbed delivers performance for the globally connected enterprise. With Riverbed, enterprises can successfully and intelligently implement strategic initiatives such as virtualization, consolidation, cloud computing, and disaster recovery without fear of compromising performance. By giving enterprises the platform they need to understand, optimize and consolidate their IT, Riverbed helps enterprises to build a fast, fluid and dynamic IT architecture that aligns with the business needs of the organization. Additional information about Riverbed (NASDAQ: RVBD) is available at www.riverbed.com.



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