

Whitewater Cloud Storage Gateways and the Nirvanix Cloud Storage Network

Enterprise-class cloud storage for enhanced data protection

The exponential growth of unstructured data, increasing business expectations, and flat capital budgets are encouraging IT professionals to leverage the public cloud to augment their existing storage infrastructures. While traditional backup architectures and tape technologies have served organizations well in the past, new solutions are now available that deliver the security, scalability, flexibility, ease of management, and return on investment required in today's demanding business environment.

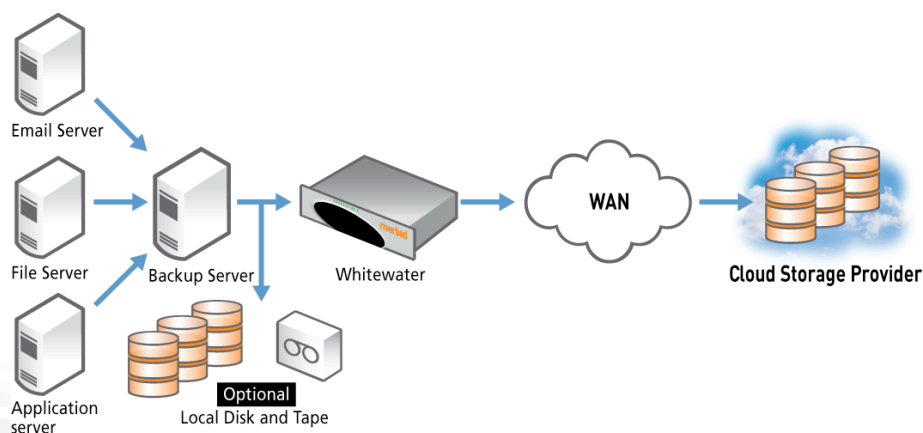
Riverbed® and Nirvanix™ have partnered to create a complete enterprise cloud storage solution that provides a secure, easy to implement, scalable method for storing and protecting backup data in the public cloud. Riverbed Whitewater® cloud storage gateways and the Nirvanix Cloud Storage Network™ significantly reduce costs through an elastic, pay-as-you-go storage pool for backup data sets that eliminates expensive remote disaster recovery hardware.

Riverbed Whitewater cloud storage gateways

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

Disaster recovery capability is greatly improved by the secure, off-site storage of data within the Nirvanix Cloud Storage Network. Leveraging the pay-for-use pricing model of the public cloud, redundant hardware, power, cooling, and hosting costs are a thing of the past. Backup data stored in Cloud Files is available anywhere with an Internet connection to provide fast, flexible recovery should the unexpected occur.

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



A Joint Solution by Riverbed and



BENEFITS

Key benefits of the Whitewater and Nirvanix Cloud Storage Network solution:

- Reduce costs 30 to 50 percent by eliminating tape systems, tape vaulting, and remote disaster recovery hardware.
- Improve disaster recovery readiness with secure, off-site data sets in the Nirvanix Cloud Storage Network.
- Improve recovery point (RPO) and recovery time objectives (RTO) with Whitewater's intelligent local cache, LAN-speed file access, and WAN optimized real-time replication.
- Secure data in flight and at rest with SSL v3 and 256-bit AES encryption. This dual-level security ensures that all data is protected end-to-end.
- Reduce cloud data storage requirements 10 to 30 times on average with Riverbed's byte-level-based deduplication.
- Replace over a petabyte of tape with a single Whitewater gateway.
- Guaranteed Quality of Service (QoS) and availability with Nirvanix's policy-based data replication.
- Easy integration into existing backup infrastructures - Whitewater gateways use the current backup software without changes to the existing infrastructure.



Whitewater gateways secure, optimize, and accelerate backup and recovery to the cloud without changes to the existing infrastructure. With Whitewater, customers can leverage their existing data protection applications such as: CA ARCserve, CommVault Simpana, EMC Networker, HP Data Protector, IBM Tivoli (TSM), Symantec NetBackup, Backup Exec, Quest vRanger, or Veeam Backup and Replication with the Nirvanix Cloud Storage Network for off-site storage without changes to the existing infrastructure, schedules, or policies.

With the Nirvanix Cloud Storage Network and Whitewater gateway solution, the Nirvanix cloud becomes a secure and reliable backup target that can be sized up or down on demand, capacity-optimized, and accelerated. In addition, customers can select the guaranteed QoS level they desire through policy-based replication for outstanding availability and fast global access.

The Nirvanix Cloud Storage Network

The Nirvanix Cloud Storage Network is comprised of seven globally dispersed storage nodes strategically located to optimize access and performance regardless of a user's location—including California, Texas, New Jersey, Germany, Switzerland, and Japan. The nodes are accessible via a single global namespace, which means that by writing data to one location, global access is possible through any or all of the nodes.

Nirvanix's standard service uses RAID-6 to ensure data integrity. Customers have the option of using Nirvanix policy-based data replication to increase the guaranteed SLA from the standard 99.9 percent for one copy, to 99.99 percent for two copies or 100 percent for three or more copies. This process is automated using Nirvanix's policy-based replication and provides unparalleled control of integrity based upon requirements and budget.

Nirvanix uses rigorous control processes that have been audited and approved by a major auditing firm, as well as the information security departments of multiple Fortune 50 enterprises. Moreover, Nirvanix has been awarded a Statement on Auditing Standards No. 70 (SAS 70) Type II certification which means that the organization has demonstrated adherence to the control processes for over a year.

Riverbed Whitewater cloud storage gateways and the Nirvanix Cloud Storage Network

Nirvanix and Riverbed have combined the best of their development teams and expertise to deliver a powerful, cloud-optimized storage platform and a cloud storage gateway to enable fast, reliable, secure access to the public cloud. Key benefits of Whitewater gateways and the Nirvanix Cloud Storage Network include:

- **Secure off-site data more effectively:** Whitewater gateways encrypt data in-flight to the cloud with SSL v3, and at rest using 256-bit AES encryption. This double layer of encryption ensures that any data moved into cloud storage is not compromised and creates complete, end-to-end security. Security policies can be tested by access of security auditors to Nirvanix data centers.
- **Simplify and optimize backup:** Eliminate tape-related administration tasks, off-site vaulting costs, and reduce the capital costs associated with disk-to-disk backup. Keep backup sets as long as required without concern for future media or format changes.
- **Pay as you go:** With the Nirvanix Cloud Storage Network customers pay only for storage consumed. Whitewater appliances reduce data storage requirements by up to 30 times to provide an extremely cost-effective solution. Customers can choose where they want to store their data within Nirvanix, providing fast access from distributed locations.
- **Drop-in installation:** Whitewater gateway installation and access to the Nirvanix Cloud Storage Network is extremely fast and easy, enabling customers to move to the cloud in minutes—not hours, days, or months.

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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