

Whitewater Cloud Storage Gateways and Amazon S3

Enabling cloud storage for enhanced data protection

The exponential growth of unstructured data, increasing business expectations and flat capital budgets is encouraging IT professionals to consider new solutions to meet the growth and reduce the cost of their existing data protection infrastructures. As data protection systems typically consume large amounts of storage and often require long retention periods, the public cloud is an ideal location due to its scalability, pay-for-use pricing model, off-site data location and reduced administration requirements. Until recently, however, concerns around security, transmission speeds and the costs of storing large data set have been barriers to cloud storage adoption.

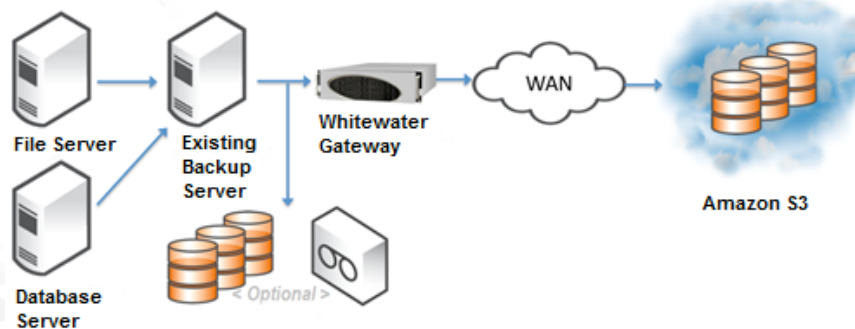
Riverbed® Whitewater® cloud storage gateways remove the barriers to cloud storage adoption and combined with Amazon S3 delivers significantly reduced costs and a substantial return on investment through a secure, elastic, pay-as-you-go storage pool that eliminates expensive remote disaster recovery hardware and provides anywhere recovery should the unexpected occur.

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 Amazon S3.

Disaster recovery capability is greatly improved by secure off-site storage of data within Amazon S3. 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 Amazon S3 is available anywhere with an internet connection to provide fast, flexible recovery should the unexpected occur.

Typical Whitewater Deployment Architecture



BENEFITS

Key benefits of Whitewater cloud storage gateways combined with Amazon S3 storage:

- Reduce costs 30 to 50% by eliminating tape systems, tape vaulting and remote disaster recovery hardware.
- Improve disaster recovery readiness with secure, off-site data sets in Amazon S3
- 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 to Amazon S3
- 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 by 10 to 30x on average, with Riverbed's byte level based deduplication.
- Replace over a petabyte of tape with a single Whitewater gateway.
- Easy integration into existing backup infrastructures – no changes to the existing infrastructure are required.



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 ensures that sensitive data is protected end-to-end.

Leveraging Riverbed's industry leading deduplication, compression and optimization technologies, Whitewater gateways shrink data set sizes by 10 to 30x 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.

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 Rackspace Cloud Files for off-site storage without changes to the existing infrastructure, schedules or policies.

Amazon Simple Storage Service (S3)

Amazon Simple Storage Service (S3) is storage for the Internet. It is designed to make web-scale computing easier for developers by providing a simple web services interface that can be used to store and retrieve any amount of data, at any time, from anywhere in the web.

Amazon S3 gives you access to the same highly scalable, reliable, fast, inexpensive data storage infrastructure that Amazon uses to run its own global network of websites.

Riverbed Whitewater and Amazon S3

Riverbed Whitewater gateways when combined with Amazon S3 storage creates a flexible, scalable, cost effective storage platform that improves data protection and disaster recovery readiness, reduces storage costs and system administration workloads.

Key benefits of combining Whitewater cloud storage gateways and Amazon S3 include:

- Reduce costs by 30% to 50% over tape and disk based architectures
- The ability to replace over a petabyte of tape with a single appliance
- End to end security of data leveraging Whitewater's strong encryption capabilities in addition to the security safeguards provided by Amazon S3 storage
- Improve DR readiness with secure off-site cloud storage in Amazon S3 with a choice as to storage location within the Amazon cloud.
- Eliminates tape, and tape system management burdens
- Instantly leverage the flexibility and scalability of cloud infrastructure
- Recovery data at local LAN speeds with the data cache within the Whitewater gateway

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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