

- SMB and NFS interfaces for Backup Repositories
- iSCSI VTL support with virtual tape compression
- High Speed Cloud Acceleration reducing Backup Windows
- Migrate tapes to cloud Storage removing the dependency on old tape hardware
- Enhanced Veeam Support
- Native File Support. Files and objects in the Cloud Storage are not mangled
- Amazon S3 and Glacier Support. Object Storage Support.
- Full Active Directory Integration
- Protected Cloud™ Security with enhanced AES-256 bit encryption
- Multiple Site Support
- Set it and Forget it simple GUI allowing less than 30-minute install
- Use your own hardware. Any server with a single XEON, 1 Ethernet port, 16GB of RAM and 1TB or more of disk for cache

The BridgeSTOR Rio-2 Cloud Backup Server has been designed for companies that require simple and easy transfer of backup data into Cloud Storage. The Rio-2 Cloud Backup Server combines industry standard protocols SMB, NFS with a VTL allowing corporate Backup Administrators to easily insert Cloud Storage into their backup practice. When combined with the Coronado Global View Manager all companies may now view and manage tapes from multiple locations around the world.

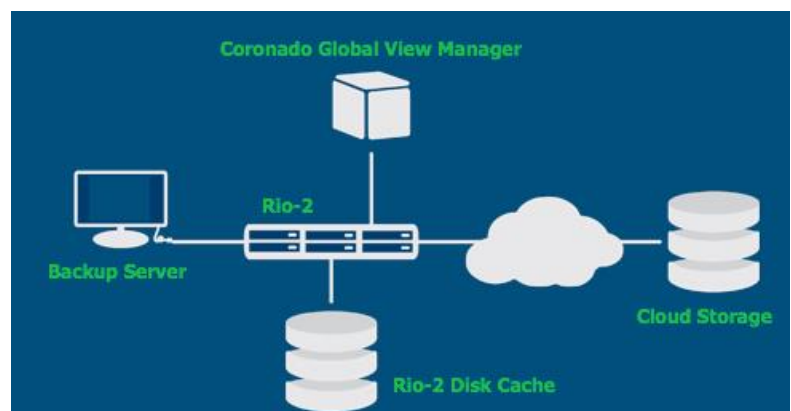
Challenge

Cloud Storage has proven to be resilient and highly available. Current Backup Software has embraced Cloud Storage as another approach of locking customers into their software maintenance programs. Backup Software also tend to be slow due to high latency between on premise locations and Cloud Storage locations. Cloud Storage also does not utilize a Global Namespace so sharing backup images between multiple sites becomes extremely difficult. Finally migrating existing tapes to the cloud and maintaining old hardware becomes a financial burden to corporations worldwide.

Compute locations in the cloud have been helpful to many IT professionals but these virtual servers still need to backup. Currently, limited amounts of inexpensive storage is available in these environments requiring a more cost effective solution.

Solution

The BridgeSTOR Rio-2 Cloud Backup Server exports SMB, NFS and a working VTL and seamlessly integrates with Microsoft Active Directory for User Authentication. The Rio-2 Cloud Backup Server is built on Centos 7 and is a fully functional server easily managed by IT professionals. The Rio-2 Cloud Storage Server allows Backup Software to run servers and agents inside the Server allowing for the fastest access to the cloud. Internal Acceleration allows backup data to be sent to Cloud Storage in the background shrinking your backup window.



Product Overview

Hybrid Cloud System

- Easy to implement on premise using Virtual Machines
- Scalable Performance by adding additional memory
- High Speed Caching to reduce cloud latency
- AES-256 XTS dual key encryption
- Compression for all Tape Images
- Optional Compression for Files

VTL Library Support

- Compatible with enterprise Backup Software
- Adjustable slot count
- Tape shelf for viewing cloud tapes
- Optional Global File System support to allow tapes to be accessed from multiple locations

NAS Support

- NFS or Windows SMB support
- Native Veeam Support
- Native File Support
- Active Directory Support

Cloud Support

- Amazon S3 Support
- Object Storage Vendor Support
- Wasabi S3 Support
- Microsoft Azure

Easy to Install to Public or Object Based Storage

The BridgeSTOR Rio-2 Cloud Backup Server has been designed for quick and easy install. Rio-2 requires two buckets with the same S3 credentials. One bucket is used for proprietary Rio-2 metadata while the second is required for the storage of files in their native file format. The Rio-2 system ships with three Virtual Machines a Global View Manager, a Cloud Storage Edge Cache and the Rio-2 Cloud Backup Server and may be installed in less than 30 minutes.

VTL Support

The Rio-2 VTL emulates and HPE tape library and an HPE LTO tape drive. Drivers are easily available via the web or from the tape backup software. The Rio-2 easily connects to backup servers over iSCSI and once connected the backup software will easily locate and install the appropriate tape drivers. Once installed, simply ask the backup software to inventory the library and tapes will be displayed with user defined barcode labels. Rio-2 is a hybrid solution where the most accessed tapes will be stored locally while all tapes are transferred and stored in the cloud storage. Using the Rio-2 GUI tapes may easily be moved in and out of the library and files may easily be restored from tapes without downloading the entire tape.

NAS Support

BridgeSTOR understands that not every backup administrator requires a VTL for backup so Rio-2 also offers a NAS interface and for Veeam Users Rio-2 is a Linux Veeam Repository. This allows backup software to easy transfer backup data using existing IP based protocols to the Rio-2 Server.

High Speed Acceleration

Rio-2 encrypts and converts file data to objects and transfers objects to the Cloud Edge Cache which contains high speed local disk. The Cloud Edge Cache will write the object to disk and once written return a successful response allowing the Rio-2 software to return an immediate successful response to the backup software allowing it to continue to operate reducing backup windows. Background threads in the Cloud Edge Cache monitor transaction logs and will send all new backup data directly to the cloud.

Lowest Cost

The Rio-2 leverages existing Virtual Machine or Hyperconverged solutions producing the the lowest cost solution on the market. BridgeSTOR does not sell hardware but will allow customers to load the software on their existing hardware. Customers may choose their own cloud provider and their own billing systems.

Virtual Machine Requirements	Rio-2 Backup Cloud Server	Cloud Edge Cache	Global View Manager
CPU Cores	4	4	2
Memory	32 GB	32 GB	8 GB
Network Ports	1	1	1
Boot Disk	256 GB	256 GB	256 GB
Cache Disk	0 GB	1TB Minimum	256 GB

