



Brooklyn Accelerated NAS Gateway

High Speed NAS Edge Cache for caching files to S3 Cloud Storage

Key Benefits

- High speed multi-protocol support including SMB and NFS to any S3 target
- Flexible local Disk cache may be flash, SSD, SATA or SAS. No extra capacity charges.
- Mirrored Cloud support. Mirror up to 4 clouds or regions.
- Native File to Object Support. Files sent to Cloud Storage remain in the same format as the file. BridgeSTOR does not mangle files to objects.
- Full Active Directory Integration for User Authentication
- Protected Cloud™ Security with enhanced AES 256-bit encryption and optional compression
- High Speed buffering reducing Cloud latency allowing for a more productive user experience
- Background processing sends the files efficiently to Cloud Storage
- Set it and Forget it simple GUI. Most Installations are less than 30 minutes.
- Ships as an OVF, AMI or an ISO for installation on physical hardware.

The Brooklyn Accelerated NAS Gateway has been designed for companies that require accelerated NFS and Windows file access to and from existing Cloud Storage. The Brooklyn Accelerated NAS Gateway acts like a standard HTML proxy but has been optimized specifically for the Amazon S3 protocol. Like a Proxy, it will forward HTTP requests to the Cloud Storage, unlike a proxy it has been designed to cache files and convert the files to objects before sending the object to the Cloud. This allows file read requests to be returned from a local disk cache and not from the Cloud Storage.

Challenge

Cloud Storage has proven to be resilient and highly available and desirable to use as a secondary storage solution. However, most existing programs and tools have been programmed to operate with files and not the Cloud Storage objects. Cloud Storage Protocols also tend to be slow due to high latency between on premise locations and the Cloud Storage.

The Brooklyn Accelerated NAS Gateway supports SMB and NFS protocols which are not supported natively by Cloud storage. This allows on premise servers to mount drives in the cloud allowing applications to easily send data to the cloud.

Solution

The Brooklyn Accelerated NAS Gateway allows SMB and NFS protocols to be used and accelerated to the cloud. By acting as a *bump in the wire* reducing wait times for Cloud Users. All file write requests will be written to local disk and logged to a transactional database. Once both have been successfully written, an acknowledgement will be immediately returned to the application. The Brooklyn Accelerated NAS Gateway high speed background threads monitor the transaction logs and convert the files to objects sending all data into the Cloud Storage. This allows the background threads to suffer the cloud latency not the user. While data is being transferred users may still use the local copy for reading and updating. Files may also be mirrored to multiple clouds at eliminating cloud storage lock in.

