



Brooklyn Cloud Edge Cache

Multi-protocol Edge Cache for caching 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 BridgeSTOR Brooklyn Cloud Edge Cache has been designed for companies that require accelerated file access to existing Cloud Storage. The Brooklyn Cloud Edge Cache is similar to a standard HTML proxy but has been designed specifically for the Amazon S3 protocol. Like a Proxy, it will store and forward data to the Cloud Storage, unlike a proxy it has been designed to cache data to the Cloud so reads may come from the local disk cache and not from the Cloud Storage. High speed background threads will transfer the data to a single or multiple cloud environment.

Challenge

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

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

Solution

The Brooklyn Cloud Edge Cache 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 write requests will be written to disk and logged in a transactional database and once both have been successfully written, an acknowledgement will be immediately returned to the application. The Brooklyn Cloud Edge Cache background threads monitor the transaction log and send all the data into the Cloud Storage allowing the background threads to suffer the cloud latency not the user. While data is being transferred existing users may still use the local copy for reading and updating. The Cloud Storage Edge cache may also mirror to multiple clouds at once eliminating cloud storage lock in. If a vendor changes its policies, simply delete the storage.

