



S3 Acceleration Gateway

S3 Acceleration for Transferring Objects to S3 Cloud Storage

Key Benefits

- High speed S3 Object Acceleration to any S3 cloud storage vendor.
- 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 S3 Object Support. Objects sent to Cloud Storage remain in the same format as the local file. BridgeSTOR does not mangle files or objects.
- AWS Access and Secret Keys are required for Authentication
- Protected Cloud™ Security with enhanced AES 256-bit encryption
- 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 S3 Accelerated Gateway has been designed for companies that require accelerated Object access to existing Cloud Storage. The S3 Accelerated Gateway similar to a standard HTML proxy but has been designed specifically for the Amazon S3 protocol. Like a Proxy, it will store and forward S3 requests to the Cloud Storage, unlike a proxy it has been designed to cache objects data locally so reads may come directly from the local disk cache and not from the Cloud Storage. High speed background threads will transfer the objects 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 objects over the internet where slow lines or long distances slow the upload process to the cloud.

The S3 Accelerated Gateway supports the AWS S3 protocol which is supported by most Cloud storage vendors. This allows on premise S3 Applications to easily send data to the cloud while allowing users to complete cloud transfers much faster allowing them to be more efficient.

Solution

The S3 Accelerated Gateway allows S3 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 S3 application. The S3 Accelerated Gateway uses background threads to monitor the transaction log and send all objects to 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 of the object for reading and updating. The S3 Accelerated Gateway may also mirror to multiple clouds at once eliminating cloud storage lock in. If a vendor changes its policies, simply delete the storage.

