

Key Benefits

- Object Storage Replacement utilizing existing storage
- Amazon REST S3 protocol support
- Native File Support. BridgeSTOR does not mangle objects
- SSL target with a certificate
- S3 simulated Access Key and Secret Key for authentication
- Multi-tenant support
- Store Objects on XFS, ZFS, EXT 3/4, NFS 3/4 or any other Linux file systems
- SSD, SATA, SAS with Linux RAID or Linux LVM support
- Simple Linux Service installation
- Virtual or Physical machines for flexible deployment on premises or in the cloud

The BridgeSTOR Cloud Storage Endpoint has been designed for companies that require Cloud Storage but would prefer to use their own existing disk or do not want to purchase commercial object storage systems. The Cloud Storage Endpoint accepts the defacto standard Cloud Protocol REST S3 developed by Amazon in 1997 and is used by most public and private object based storage today. BridgeSTOR Cloud Servers convert file data to objects and send the objects over the REST S3 protocol to Cloud Storage. The Cloud Storage Endpoint acts as Cloud Storage accepting the object data and converts them back to files which may be stored on existing Linux file systems. When combined with the Coronado Global View Manager all companies may now setup a true Global File System covering multiple locations around the world in their own environment

Challenge

Cloud Storage has proven to be resilient and highly available, however, many corporations already have resilient SANs with replication technology to multiple locations creating an internal cloud. Traditionally, current protocols are not used in this internal cloud because of the latency between the locations. How can these internal cloud data centers be used as Cloud Storage? Everything is there but the object protocol.

Solution

The BridgeSTOR Cloud Storage Endpoint provides an object interface for existing Storage Platforms. The Cloud Storage Endpoint ships on Centos 7 and is installed like other internal networking protocols such as NFS and SMB. Similar to these protocols the Cloud Storage Endpoint accepts S3 protocol and converts the object information back to files. These files are then stored on an internal mount point that is backed with standard Linux file systems such as XFS, ZFS, EXT3/4 or Linux Networking file system such as NFS or SMB. SSL, Access Keys and Secret Keys exist to simulate a true Cloud Storage Environment

