BridgeSTOR

Sydney Scale-out NAS
NAS combined with Object Storage for truly scalable on-premises 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 Sydney Scale-out NAS has been designed for companies that require large capacities of NAS storage with ease of use and scheduled simple maintenance. BridgeSTOR for years has specialized in high speed NAS for Windows and Linux communicating with the S3 protocol to object storage and/or cloud storage. Object Storage has been designed as a low-cost alternative to RAID storage using erasure code to scale out the disks. A huge advantage of object storage over RAID is that maintenance may be scheduled as the erasure code algorithm is extremely redundant writing its data.

Challenge
Most NAS systems today use RAID for data protection. RAID works well but has major rebuild issues when the capacities start to grow. The rebuild times extend and if another drive fails during the rebuild, the entire disk system is lost. For years high-end NAS vendors have built complex systems to scale NAS storage to large capacities and high performance. The reality is that many companies just need scale out and not high performance. Object storage has been designed for scale out but are not as high performance as the upper solutions but they are more cost effective.

Solution
The Sydney Scale-out NAS marries BridgeSTOR NAS technology with industry standard object storage. This allows for an extremely cost-effective scale-out NAS solution for Windows and Linux using the SMB and NFS storage protocols. BridgeSTOR also supplies a high-speed storage tier that sits in front of the object storage that caches directories and the most frequently accessed files while storing all files into the object storage. The Sydney NAS product may also mirror the files to Cloud Storage Providers for allowing the NAS data backed up remotely and/or to be shared between multiple corporate locations. The Coronado NAS gateways may be used in campus locations to scale-out the NAS, allowing multiple groups to share the solution. The Brooklyn edge cache me be used in remote locations to allow the NAS data to be accessed by remote users.