XLstore

DATA STORAGE WITHOUT LIMITS

The Broadberry XLstore is the next generation of intelligent unified data storage platforms designed to meet the requirements of today's sophisticated enterprise data centers and high performance applications with new levels of storage performance, scalability and reliability.

Designed on the latest 128-bit file system the XLstore is the first storage solution that consolidates and manages up to 16 Exabytes of data in a single storage solution. In addition, XLstore supports many other features such as virtualisation, block level mirroring, unlimited snapshots, end to end check summing, RAIDZ, RAID Z2, IO pooling, end to end encryption, compression and thin provisioning making the XLstore a total storage solution for organisations of all sizes.

Scaling Capacity and Performance

The Broadberry XLstore supports many network connectivity environments including GbE, 10GbE, Infiniband and Fibre, making it the most versatile storage solution available.

The Broadberry XLstore allows an enterprise to match appropriate storage media to differing application requirements, achieving optimal levels of performance, capacity and cost without being required to manage and maintain multiple storage systems. Hard drives in the XLstore can either be the high performance enterprise class SAS drives or higher capacity SATA enterprise drives enabling you to mix and match as your storage requirements dictate.

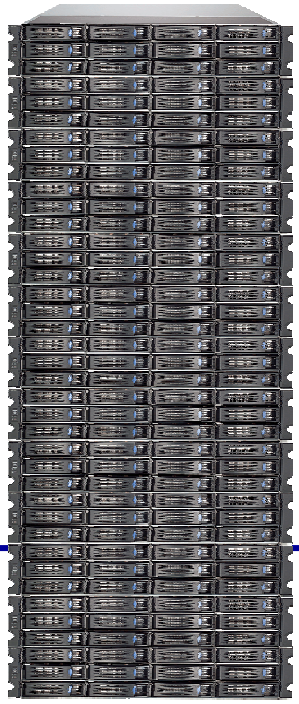
Customers can add storage at any time to meet new application or business needs or to consolidate a company's disparate storage into a single point of management, without incurring downtime and with the IO pooling feature it means that as you add extra storage your data storage solution becomes faster. Storage capacity is also not a concern with the Broadberry XLstore because it is designed on a 128-bit file system with current data storage limitations being 16 Exabytes.

Key Features

- **Up to 16 Exabytes Single Volume Size**
- **RAID Z and RAID Z2**
- **End to End Check Summing**
- **Virtualisation**
- **Thin Provisioning**
- **IO Pooling**
- **Block Level Mirroring**
- **Unlimited Snapshots**
- **End to End Encryption**
- **Data Compression**

Business Continuance

The Broadberry XLstore with RAIDZ is designed for the heart of the enterprise, with no single point of failure. All aspects of the systems architecture deliver maximum reliability and availability even during upgrades or maintenance. Also the XLstore has data replication, mirroring, data compression and data encryption features for backups to either local or remote sites. The high availability RAID Z2 feature built into the XLstore 128-bit file system allows for multiple storage units to fail or be taken off line and still supply continuous data availability regardless of an enterprise's maintenance schedules or disaster recovery requirements.



Investment Protection

In today's environments, as new server and networking technology is deployed within the enterprise, storage systems must be upgraded to meet the needs of the IT infrastructure. The vast majority of storage system upgrades require an entirely new product installation. With the Broadberry XLstore you can eliminate these painful hardware replacement costs by having a modular storage solution with maximum flexibility to upgrade without replacing the entire system.

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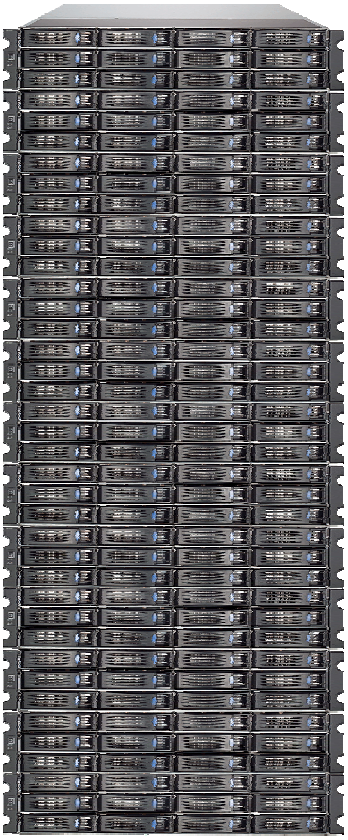


RAID Z and RAID Z2
The XLstore enables RAIDZ (RAID 5) and RAIDZ2 (RAID 6) across multiple storage boxes. This unique feature allows not only spare drives and parity drives in the storage servers but also across the arrays themselves. With the XLstore Application Head Node the arrays can be raided via the RAIDZ or RAIDZ2 features. The 128-bit file system can raid 100s of storage servers with parity and hot spares. Like standard RAID additional storage servers can be added to the storage system at a later date. This means that the XLstore is the ultimate solution for redundancy and growth.

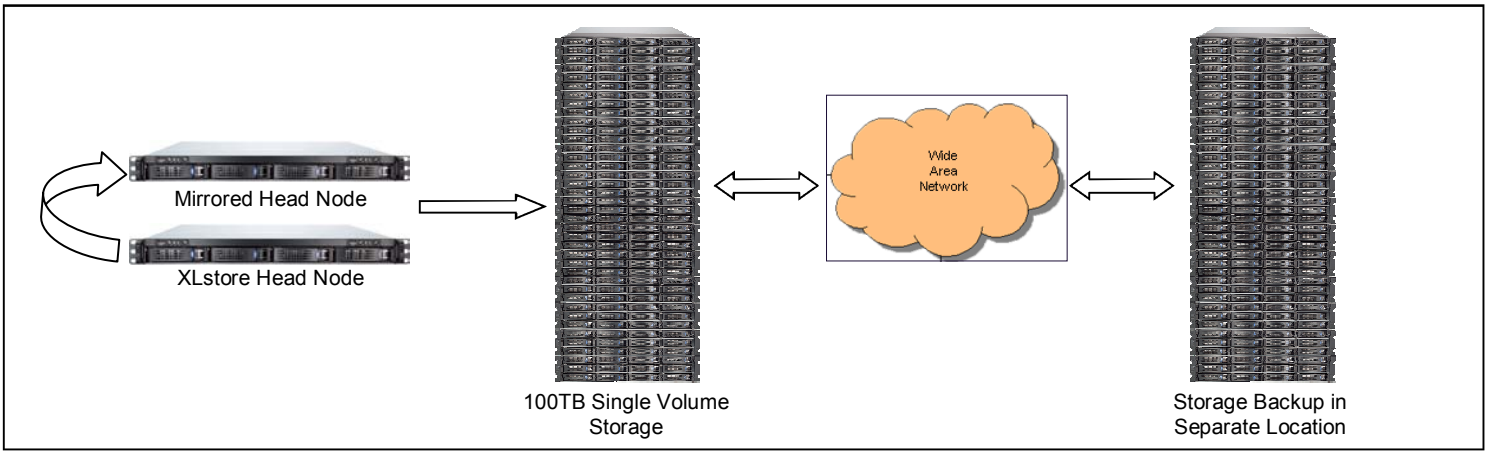
End to End Check Summing
The 128-bit file system incorporates end to end check summing and transactional copy on-write IO operations thus preventing write holes and silent data corruption that beset storage solutions based on 32-bit and 64-bit systems.

Virtualisation
Storage virtualisation is the term given to the process of entirely abstracting logical storage from physical storage, and is common place in Storage Area Networks (SANs). The raw storage is combined into storage pools, from which the logical storage is formed. Individual storage devices, these could be multiple independent storage devices, spread on a network, seem to the administrator as a single, location-independent, monolithic storage area, which can be managed centrally.

Thin Provisioning
Thin provisioning provides a just-in-time and just enough space to be allocated to servers or storage silos. Many storage environments have various applications accessing the same storage pool; Thin Provisioning enables managers to keep a storage buffer to apply to the various applications as needed.

IO Pooling
The 128-bit file system has IO pooling. This means that the more storage arrays added to the XLstore Storage solution the solution becomes faster.

Example



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