Open-E DSS
Data Storage Server
Volume Replication

Enterprise-class Volume Replication from Open-E helps ensure non-stop access to critical business data.

No business can afford the lost productivity, customer dissatisfaction and lost revenues that result when data is lost. To protect business data against system failure, cyber-attack, fire or natural disaster, many companies are including offsite volume replication as part of their data security strategy.

Open-E Data Server Storage (DSS) offers the enterprise-class Volume Replication capability as a feature of its versatile, all-in-one software for centralized IP-storage management, at no extra cost! Because Open-E DSS provides integrated management for all your data - iSCSI, NAS, and Fiber Channel - all your business critical data can be protected with one low-cost, easy-to-use solution.

Features

- Advanced features included at no extra cost
- Prevents data loss and increases business continuity
- Off-site/remote replication for disaster recovery
- High-performance volume replication over any distance
- Integrated replication for iSCSI, NAS and Fibre Channel storage
- Easy-to-use console tools with secure administrator access and multiple management levels
- Use with Open-E Automatic Failover for quick, complete, reliable recovery of critical applications
- Snapshot backup capability for volume and data replication
- Open-E DSS works with VMware and Virtual Iron, providing additional flexibility in a virtualized datacenter environment
- Replicate up to 256 4 TB volumes in 32-bit mode
- Scalable beyond 16 TB per Logical Volume in 64-bit mode
- Network adapter fault tolerant
- Adaptive load balancing with 10 GB Ethernet support
- Hardware and software iSCSI initiator and RAID support
- Online logical volume expansion
- SNMP
- E-mail administrator notification
- Uninterruptable power supply (UPS) support
- User and group quota support
- Antivirus server scanning
- Backup to tape and removable disk
- Cross-data synchronization with Data Replication

About Open-E

Open-E IP-based storage management products are known throughout the storage industry for their best-in-class performance, reliability, scalability and ROI. The **Open-E DSS**, **NAS-R3** and **iSCSI-R3** line of products offer outstanding flexibility and value with the ability to support a variety of storage protocols, such as iSCSI, Fibre Channel or Infiniband (IPoIB), in either file or block data transmission.

Open-E works extensively with leading technology vendors, allowing system integrators to build affordable, scalable and secure storage systems on a variety of industry-standard hardware platforms, using choice of over 600 compatible products from nearly 30 vendors.

Enterprise-Class Data Protection at no Extra Cost

Open-E DSS Volume Replication can be set up in just a few minutes to mirror target data volumes, providing an extra layer of fault tolerance in case of system downtime or loss of the primary data source.

By allocating one target as the primary data storage device and the second as a destination, data will synchronously be written to both, using a dedicated network connection. The primary target is replicated in real time, so that the data will be immediately available if the primary storage system is down or damaged. The system accommodates up to 256 LUNS per target, and up to 4 TB per volume. Adjustable bandwidth throttling helps ensure continuous top performance.

Volume Replication for Disaster Recovery

Open-E DSS Volume Replication provides synchronous replication to copy critical company data from NAS, iSCSI and/or Fibre Channel networks to a secondary site. If the primary server fails for any reason, the secondary server can be up and running as the primary server with just a few mouse clicks, or you can use Open-E DSS Automatic Failover to automatically switch over to secondary storage in case of failure.

Integrated Data and Volume Replication

Open-E DSS offers both asynchronous Data Replication and synchronous Volume Replication to provide zero-data-loss protection for your critical company data. For example, if your primary data server goes down, you can instantly switch to the secondary server, apply incremental changes from Open-E DSS Data Replication, then resume normal operations. The combination of these features lets you maintain multiple, complete copies of data on remote servers over local area networks (LANs) or wide area networks (WANs) using the integrated replication technologies.

Easy to Set Up and Manage

Open-E DSS makes it simple to manage your NIC's for bonding, hardware RAID controllers via web access, and all your Fibre Channel, iSCSI and NAS volumes. The management interface is so easy to use that you can be set up and providing access for all your storage needs in just minutes, compared to several days with other systems. Grouped functions are easily usable via a graphical user interface (GUI), and all features provide detailed information and searchable help.

LEARN MORE

To find out more about Open-E DSS, go to **www.open-e.com** or contact us at **1-781-481-9399**
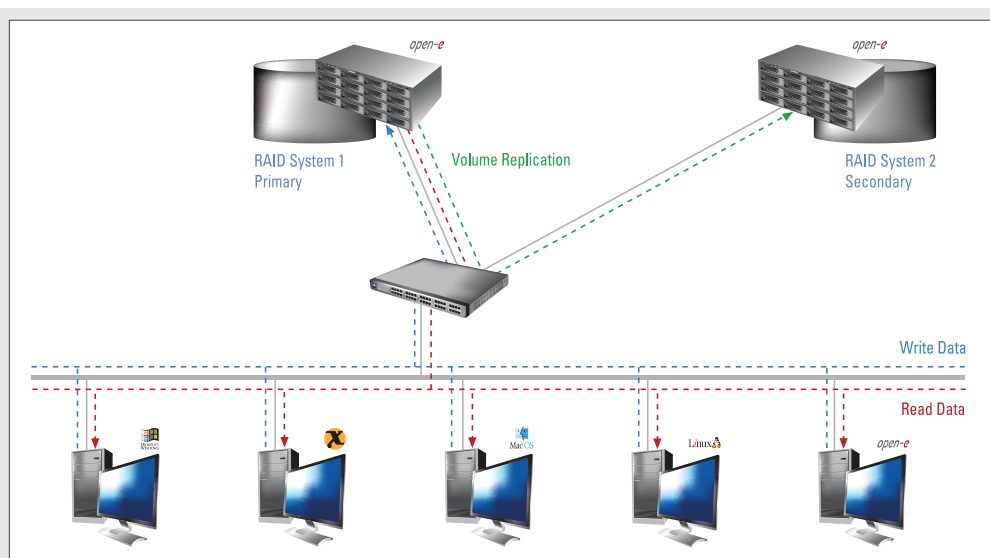

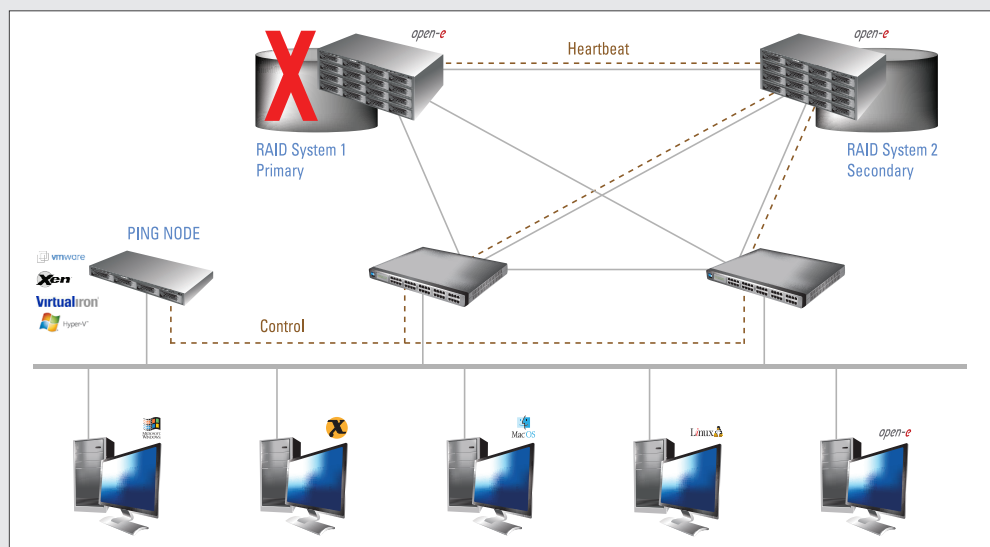**Figure 1** Open-E DSS Server with Volume Replication

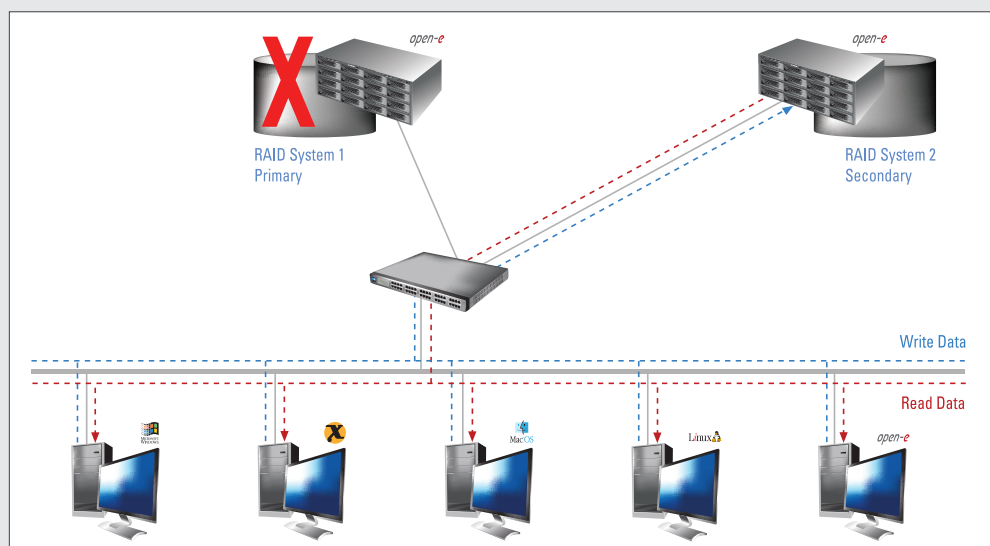**Figure 2** Failure of Primary DSS Server with Volume Replication

Figure 3 After Switching, Replicated Volumes are Available on System 2 Secondary