

PANASAS® ACTIVESTOR REPLICATOR

Continuous Data Replication for High Performance Computing

High Performance Computing content creation continues to grow in value and capacity demanding incremental data protection to ensure the investment is preserved. The valued data requires the capability to be efficiently replicated and distributed regardless of distance, number of files or size and capacity. The data protection solution requires the flexibility to support a variety of client operating systems with hardware independency for heterogeneous environments. The data protection solution is required to be tightly integrated for reliability with automated policy based management capability.

Enterprise data protection for demanding High Performance Computing environments featuring ease of use configuration, scheduling and policy management.

Panasas ActiveStor Replicator

Flexible Data Replication that protects your critical data anywhere

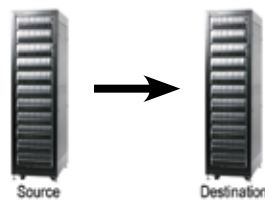
The Panasas ActiveStor Replicator solution provides continuous data replication over any distance. You can replicate and distribute your critical data between Panasas High Performance Computing storage systems for disaster recovery, remote site file sharing and content distribution, all managed with an easy to use graphical user interface. In addition to a Panasas source and destination configuration, the Panasas ActiveStor Replicator operates seamlessly across heterogeneous platforms supporting Linux, Windows and Solaris operating environments. Proprietary architectures can be volume level replicated with a CIFS or NFS mount.

The Panasas ActiveStor Replicator solution monitors changes to all protected files and replicates only the bytes that change, reducing the time to create replicas and capacity growth. Improved performance is achieved by compressing the protected data before it is sent. Replicated WAN data traffic flow is controlled with the bandwidth throttling flow-control feature.

Uni-Directional

Replicates data from one server (Source) to another server (Destination). In this configuration, the source is the primary server and the destination is a warm-standby server.

Uni-Directional Data Replication



Bi-Directional

Bi-directional data replication connects two servers using a local area network (LAN) or wide area network (WAN). It automatically replicates data between source and destination to maintain enterprise-wide data consistency using existing networks. Data can be used on both the primary and secondary server. This enables enterprises to instantly switch between the source and the destination server in the event of a business interruption.

Failover Bi-Directional Data Replication



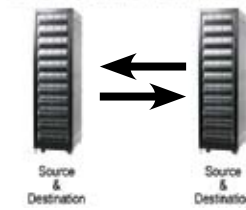
FEATURES AND BENEFITS

- **Continuous Asynchronous Replication Protection:**
Provides fast and efficient policy-based replication protection for local and remote locations
- **Snap Delta Data Replication:**
Replicates only the byte level changes in data in-between replication time intervals reducing replica size, network traffic and capacity growth
- **Flexible Configuration Options:**
Uni- and bi-directional, one-to-many and many-to-one configuration options for disaster recovery, back up consolidation and content distribution applications
- **Mixed Heterogeneous Support:**
Support for Linux, Solaris and Windows operating systems clients with Panasas as the destination or source
- **Graphical User Interface:**
Provides ease-of-use management and monitoring
- **Network Bandwidth Throttling:**
Optimize source and destination replication network bandwidth

Bi-Directional Warm- Standby

This configuration keeps data available in the event of an outage. If one of the servers fails, businesses can switch to the replica server. A unique feature of ActiveStor Replicator allows data to be usable on both the primary and secondary server with the assurance of data integrity, regardless of the distance between the servers.

Bi-Directional Data Replication



Bi-directional replication also enables real world collaboration while enhancing business continuity by allowing instant switching between servers in the event of a business interruption. ActiveStor Replicator's capability allows transparent file collaboration regardless of network bandwidth. This allows full resource utilization of equipment.

One-to-many

This configuration distributes data from one server to many servers, each of which could be running on different operating platforms, such as Windows, Linux, UNIX, or Solaris. Geographically dispersed organizations rely on this functionality to effectively provide the same data to all locations.

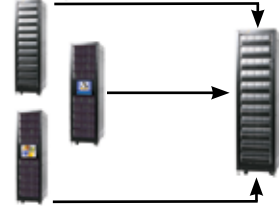
One-to-Many Data Replication



Many-to-one

Some organizations need to consolidate data from many heterogeneous servers in real-time to a single destination server where it can be stored, backed up or archived. This capability enables organizations to achieve significant savings due to the efficiencies of centralized data management and reduced backup time with Panasas at the destination.

Many-to-One Data Replication



Panasas Asynchronous Replication Server



Network Connectivity

- Dual 1Gbe RJ-45
- Dual 10GigE CX4
- Dual 10GigE Optical/TwinAX

CPU

- Single processor
 - Quad Core
 - 2.5GHz
 - 12MB cache

RAM

- 4GB cache

HDD

- 2 x 80GB HDD
 - 2nd HDD mirrored for fault tolerance

Power Supply

- Type
 - 650W (1 + 1) Redundant AC power supply w/ PFC
- AC Voltage Input
 - 100 - 240V, 60-50Hz, 8-4 Amp
- +5V sb
 - 3 Amp
- +12V
 - 54 Amp

Dimensions

- Height
 - 1U
- Depth
 - 25.6"
- Gross Weight
 - 22kg

Software

- CentOS Operating system
- Asynchronous Replication

Asynchronous Replication Software for non-Panasas Source(s) and Target(s)

Supported Platforms

- Windows x86-32
- Linux kernels 2.4 & 2.6 on x86-32, x86-64 & IA64
- SUN Solaris (SPARC) & x86-64
- CentOS OS 4 & 5

VM Ware Support

- RHEL 4 & 5 on x86 or x86-64
- SLES 9 & 10 on x86 or x86-64
- CentOS 4 & 5 on x86 or x86-64

For more information, contact us today at www.panasas.com or 1-888-PANASAS.



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