Replication Options

Delta-based IP replication for fast, low-cost disaster recovery

What is iglu blaze?

X-IO's worry-free iglu blaze SAN storage uses the world's most reliable storage foundation, the Intelligent Storage Element, in order to provide an unrivaled balance of cost, risk, and performance. It provides operational simplicity and can be uniquely adapted to the world of Software Defined Storage at no additional cost.

This modular SAN solution leverages a distributed controller architecture that linearly adds consistent high performance and reliability, even at 100% capacity utilization. iglu blaze deeply integrates with a wide variety of operating systems and hypervisors and provides the industry's lowest total cost of ownership, backed by a standard 5-year warranty.

What are the replication options?

The X-IO replication option works with X-IO iglu blaze solutions to replicate data over any existing infrastructure. In addition, it can be used for site migration, remote site consolidation for backup, and similar tasks.

Replication is configured and managed independently of servers, so it integrates with any operating system or application for cost-effective disaster recovery (DR).

What do you get?

Instant, Comprehensive Recovery

Most discussions about DR focus on ensuring that systems are available during a disaster. However, those who have been through a disaster know that while having systems up and running during a disaster is extremely important, the real challenge is the long and tedious process of restoring the systems at the primary site—or new primary site—back to a normal state.

X-IO iglu blaze replication includes a re-synchronize function to help IT administrators transfer data back to the primary site for normal operations for a complete DR solution.

Flexibility

Data is replicated on a continuous or periodic basis to designated DR volumes. In the event of a primary site disaster, replica volumes can be switched to primary status and used by standby servers or virtual machines.

Snapshots of replica volumes can also be mounted during normal operations, allowing the DR site to be used for offsite backup or testing with zero impact on the host. The replication process itself is tunable on a per-volume basis to match the available bandwidth. Data can be compressed or encrypted as it is replicated between data centers.

Replication Options

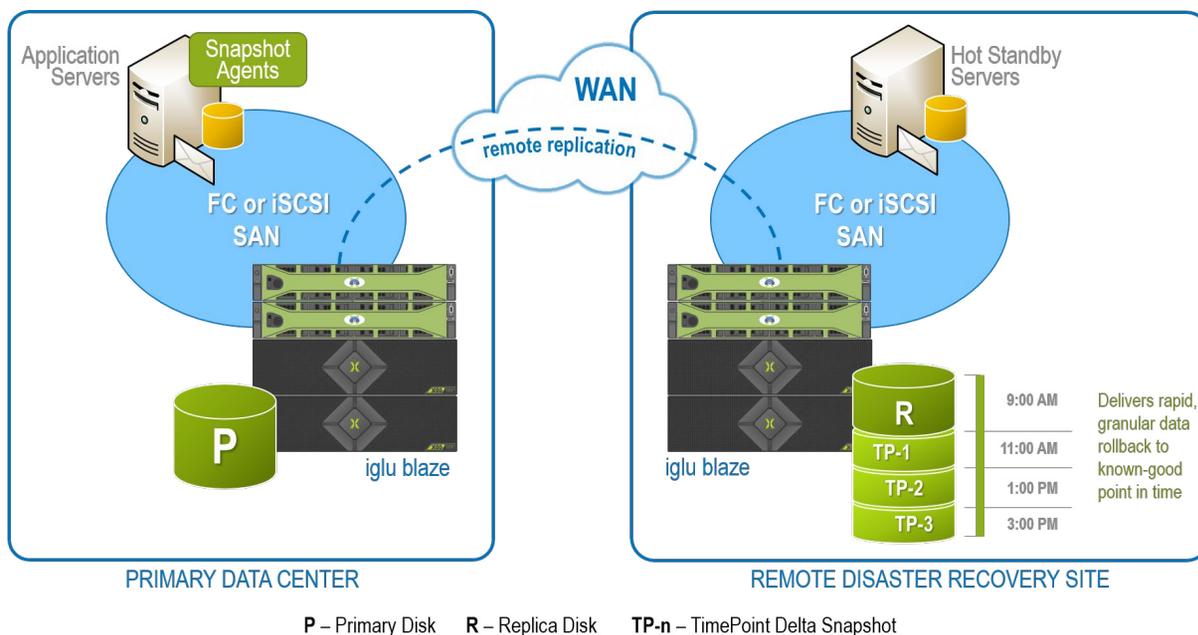## Delta-based IP replication for fast, low-cost disaster recovery

What do you get?

Minimized Network Bandwidth and Storage Consumption

Patented X-IO ReplOptimize technology ensures that the least possible amount of data blocks are transmitted. ReplOptimize enables greater scales of efficiency by sending up to 64 times less data over the WAN than many array-based replication products.

100% Transactional Integrity

Application-aware snapshot agents let active databases replicate with full transactional integrity and point-in-time consistency, allowing standby servers to be operational after a normal boot cycle with no need for lengthy disk or database consistency checks. See image below:

P – Primary Disk   **R** – Replica Disk   **TP-n** – TimePoint Delta Snapshot

User Case Study

Over an 83-day period, an organization replicated data changes that took up 1.2 TB of capacity per day. However, the X-IO solution removed 1 TB of redundant data on a daily basis for a remarkable 84% savings in WAN bandwidth and storage requirements. If the firm's staff members were to copy all the data changes made at the file system level, it would have taken 68 hours to replicate each days worth of data, an unworkable situation. X-IO iglu blaze would reduce the firm's daily replication time from 68 hours to 10.7 hours and save $600,000 annually in WAN costs.