



NetApp™
Go further, faster



Software

NetApp SnapMirror

Protecting and accelerating your business with
up to 60% lower TCO

KEY BENEFITS

Standardized multipurpose replication solution

SnapMirror® can protect your business with simple, efficient replication for disaster recovery and extend the value of replicated data to accelerate your business.

Reduced bandwidth utilization

Native network compression reduces bandwidth utilization by 70%, accelerating data transfers to lower RPO.

Reduced management overhead

Easily manage replication across different storage array tiers and protocols with the same tool.

Storage efficiency extended

SnapMirror thin replication extends primary storage efficiencies of virtualized environments up to 90% to the network and secondary storage.

Proven, tested, and integrated with leading industry partners

NetApp is recognized as the second largest storage replication vendor, and works with major partner applications to simplify and automate data management.

THE CHALLENGE

Provide instant access to your business-critical data

In today's always-on global world, you need to protect and quickly recover your data in the event of damaging natural or human-made events. You also need to maximize investments and get the most out of your IT infrastructure. An effective disaster recovery strategy is vital to prevent your operations from being brought to a standstill, resulting in lost productivity, reputation, and revenue. But being able to reuse your DR facility for business intelligence or development and testing can turn your disaster recovery solution into a business accelerator.

THE SOLUTION

Increase availability and speed recovery with NetApp SnapMirror software

NetApp® SnapMirror software is a cost-effective, easy-to-use disaster recovery solution. It replicates data at high speeds over LAN or WAN, providing you with high data availability and fast disaster recovery for your business-critical applications, such as Microsoft® Exchange, Microsoft SQL Server®, and Oracle® in both virtual and traditional environments. When you mirror data to one or more NetApp storage systems and continually update the mirrored data, your data is kept current, and you can use the mirrored data where and whenever you need it.

SnapMirror delivers powerful data management capabilities for virtualization, being able to protect customers' critical data while providing the flexibility to move data between locations and storage tiers. Integration with Citrix, Microsoft, and VMware® makes sure that the benefits of SnapMirror in a physical server environment are equally applicable in a virtual environment. For example, you can leverage VMware Site Recovery Manager for rapid, reliable, and affordable automated site disaster recovery. Integration with SnapMirror lets you achieve high levels of availability through instantaneous recovery and access to your data through your failed-over virtual machines on the secondary site.

TOTAL COST OF OWNERSHIP

With SnapMirror, you can reduce your overall TCO by up to 60% and make it easier to justify the DR investment by putting your DR site to active business use. Because our solutions help increase the efficiency of your storage utilization, you no longer need multiple physical copies of data for each business use. Our FlexClone® technology enables you to create near-instantaneous, space-efficient copies of data on your DR storage. You can use these copies for multiple business functions without any negative effect on your production system.

INCREASE VALUE AND VERSATILITY

Disaster recovery

Replicate data to one or more NetApp storage systems to minimize downtime costs in case of a primary site failure. Failover and failback can be automated for speed and to reduce human error.

Business intelligence

Running extensive analysis might be critical for the business but is hard on the performance of production networks. Production networks can be offloaded from intensive data mining by running complex analyses on replicated data.

Data distribution

It might be array migration at the turn of a lease, moving data from Fibre Channel to SATA storage, consolidation of remote offices, or simply setting up a new location; SnapMirror provides a fast, efficient, and flexible method to move data. If your business is geographically dispersed, and all locations need access to the same data set, such as training videos or CAD tools, you can use SnapMirror to distribute the same data to all locations.

Faster development and test

Replicated data can be quickly cloned at the DR site and used in dev/test for accelerated application deployment. Colocation of DR and dev/test environments can significantly improve utilization of DR facilities, and on-demand dev/test clones provide as many data copies as needed to get to production faster.

REDUCE NETWORK BANDWIDTH UTILIZATION

With NetApp SnapMirror, the core technologies in Data ONTAP®, including Snapshot™ and deduplication, combine to reduce the amount of data that is actually transmitted over the network by sending only changed blocks. In addition, you can cut your bandwidth needs and costs by implementing network compression built into SnapMirror, which accelerates data transfers and reduces the network bandwidth utilization by up to 70%.

To further reduce your network bandwidth requirements, SnapMirror automatically takes checkpoints during data transfers. If your system goes down, the transfer restarts from the most recent checkpoint. To eliminate the need for full transfers when recovering from a broken mirror or loss of synchronization, SnapMirror also performs intelligent resynchronization. If data on the mirrored copy was modified during application testing, it can be quickly resynchronized with the production data by copying the new and changed data blocks from the production system to the mirrored copy.

REDUCE MANAGEMENT OVERHEAD

You can set up your SnapMirror solution in minutes and easily handle administration and operational tasks using our Protection Manager software. Built-in SNMP support enables easy integration with any SNMP framework. With our simplified setup and use, you reduce the likelihood of operator error during the recovery process, enabling faster recovery from disaster.

SnapMirror also provides you with the flexibility to choose the level of recovery point objective (from zero seconds to hours) that meets your business requirements, using synchronous, asynchronous, or semi-synchronous replication in either a Fibre Channel or IP network infrastructure.

You can also choose from a variety of different storage configurations or models for your source and mirrored systems. For example, a multihop (or cascading) configuration lets your NetApp SnapMirror target volume serve as a source for other targets, with each mirror pair running on its own schedule to meet site-specific requirements. This is the perfect solution if you need to replicate data to a nearby DR site using synchronous mode (to prevent data loss in the event of a site disaster) and then replicate over a longer distance on the second hop using asynchronous mode (to protect against a regional disaster).

PARTNER FOR SUCCESS

When you partner with our Professional Services and Global Support teams, you gain access to our extensive storage expertise, innovative technologies, and best practices. You can accelerate the return on your infrastructure investments and get the most business benefit from them. We respond quickly to your problems, no matter where in the world they occur, and, because we have one of the most flexible support programs in the industry, you always get just the support you need for your unique IT and business requirements.



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