

Dell EMC Isilon SnapshotIQ

Fast, efficient and simple data backup and recovery

ESSENTIALS

- Near-immediate snapshots and data restoration to meet specific RPO and RTO requirements with little or no performance overhead
- Flexibility to set granular snapshot data backup policies at the file system, directory or sub- directory levels
- Highly efficient data backups without need to manage free space requirements for snapshots
- Automated, in-place snapshot restoration with SnapRevert.

Rapid data backup and recovery to meet your data availability requirements

Most IT organizations today are under increasing pressure to provide high levels of data availability to support 'always-on' business operations. To achieve this, they need a highly reliable and responsive data backup and recovery capability that protects data against accidental deletion or virus attack while minimizing downtime and impact to their business users. At the same time, many IT organizations are under immense pressure to tightly control operating costs and capital expenditures. For this reason, organizations need a highly efficient data backup and recovery capability as well as one that is easy to manage.

To help meet this challenge, Dell EMC Isilon SnapshotIQ software provides a simple, scalable and flexible way to enable enterprise-class data, point in time protection and recovery for scale-out storage. Isilon SnapshotIQ can be used as a cornerstone of your big data protection strategy. SnapshotIQ allows you to make frequent, low-impact, user- recoverable backups of files. Snapshots vastly improve the frequency and reliability of backups, since they incur minimal performance overhead and can be safely created on a production cluster.

With the ability to support a highly scalable number of snapshots within an Isilon storage environment, SnapshotIQ represents a significant advancement over traditional snapshot technology.

SnapshotIQ provides you with the ability to backup data automatically and as frequently as required to meet your recovery point objectives, with little to no performance impact to business users, regardless of the size of the file system or directory being snapshot or the level of production activity on the cluster.

SnapshotIQ also offers an extremely fast snapshot capability—typically less than one second to create—when needed, near-immediate data restoration to meet your aggressive recovery time objectives easily. Since the security of the file is retained within the snapshot, restoration is both secure and simple.

Highly scalable and simple data backup and recovery

SnapshotIQ allows you to snapshot precisely the data you want, when you want. It does not require you to snapshot the entire volume which may contain a great deal of data you don't want or need to snapshot. You can also easily move directories, assign resources and change directory names, without the worry of preserving snapshot integrity and logical access to the snapshots.

To help you meet the data protection needs of your enterprise, SnapshotIQ supports a highly scalable number of snapshots throughout an Isilon storage cluster and up to 1,024 snapshots per directory. This provides you with massive scalability and data protection for your large and growing data environment.

You can also streamline management of your data backup processes. Because SnapshotIQ is globally coherent and spans across all nodes, regardless of the cluster size, you can administer snapshots from a true single point of view—giving you unmatched flexibility and ease of use.

Another advantage of SnapshotIQ is that it virtually eliminates the challenge of monitoring and ensuring that sufficient storage space is available for snapshots. With SnapshotIQ, you no longer need to worry about managing snapshot capacity and performance. With the flexibility of Isilon clusters, storage capacity and performance can be added on-the-fly, quickly and transparently, without having to replicate or delete snapshots to free up space.

The automated SnapRevert functionality of SnapshotIQ also makes restoration to a specific recovery point extremely easy. This is particularly useful for recovering from disruptive events like virus or malware outbreaks.

Efficient and cost-effective data protection

SnapshotIQ is designed to help you provide highly efficient, cost-effective data protection. Once your baseline snapshot has been established, only changes to blocks that make up a file are reflected in updates to the current version of snapshots. This allows highly efficient snapshot storage utilization. Additionally, since snapshots are an integral part of the OneFS file system there is no need to pre-allocate dedicated snapshot reserve space.

One of the largest IT costs associated with backup and restore is the sheer number of help desk calls from end-users who accidentally delete a file or directory. To reduce these costs, SnapshotIQ can be used to empower end-users by enabling them to easily find and restore their own accidentally deleted files or folders—without any IT intervention. In this way business users remain productive and impact on IT staff can be significantly reduced.

SnapshotIQ transcends the limits of traditional approaches by reliably distributing a highly scalable number of snapshots across multiple, highly available Isilon scale-out storage nodes. The result is a remarkably simple, highly scalable and efficient data backup and recovery capability that allows you to meet the demanding data availability requirements of your business.

Take the next step

Contact your Dell EMC sales representative or authorized reseller to learn more about how Dell EMC Isilon scale-out NAS storage solutions can benefit your organization.

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