



Retrospect Backup

Technical Deep Dive on Forever-Incremental File-Based Backup

Backup Less. Manage Less. Worry Less.

Retrospect Backup's goal is to protect your entire environment as quickly as possible in as little storage as possible. The core engine uses forever-incremental file-based backup technology to protect individual files and folders as well as full systems. Forever-incremental backup allows you to only back up file and system changes since the previous backup, minimizing backup time and storage costs.

Understanding How Retrospect Works

Retrospect is file-based backup software, as opposed to drive imaging software that copies blocks or sectors on a hard disk drive. While an image- or block-based tool can be very fast at recovering an entire disk partition or providing a point-in-time view into a partition's contents, a file-based backup provides several distinct advantages. For example, it's possible to quickly search multiple backup archives and recover multiple versions of a document, while still being able to provide a complete restore of an entire disk. It's also easy to restore files backed up from a Windows PC's NTFS volume to a Mac, because the volume format doesn't matter for file-based recovery.

Retrospect employs several technologies to ensure that it only and always backs up the minimum number of files necessary to restore whatever volume it is protecting.

Forever-Incremental Backup Technology

Retrospect doesn't use the traditional concepts of full, incremental, and differential backups.

- Full Backup: This is a complete point-in-time snapshot of a volume. They are time consuming and takes up the most space.

- Standard Incremental Backup: This is a backup that depends on a full backup and any needed incremental backups. Incremental backups increase backup speed and decrease the storage space that it takes to do a full backup. Incremental backups only back up the data that has changed since the previous backup. The primary disadvantage is that restores can be

inaccurate and time-consuming. Example: to restore a backup on Wednesday after a Mon and Tues backup, you would have to first restore Monday's full backup. After that, you would have to restore Tuesday's backup, followed by Wednesday's ... and that is with just two incremental backups.

- Differential Backup: The advantage that differential backup offers over incremental backups is a shorter restore time. Restoring a differential backup never requires more than two backup sets. The tradeoff is that, as time progresses, differential backup media grows to contain much more data than an incremental backup.

These are outdated modes of backup that have significant drawbacks regarding performance and restore precision. Traditional full backups are incredibly time consuming but offer precise restores. Incremental backups save time during the backup process, yet they restore unwanted files that were renamed, moved, or deleted since the last full backup.

Retrospect's **Forever-Incremental Backup Technology** works by matching the files on a source volume with the files that are already stored on the destination Backup Set. By doing so, Retrospect only needs to back up those files that have changed or been newly created since files were last written to the destination.

Forever-incremental backups offer the best of all options. The basic idea is that, like an incremental backup, a forever-incremental backup begins by taking a full backup of the data set. After that point, only incremental backups are performed.

What makes a forever-incremental backup different

Forever-Incremental Backup

1	Full
2	Incremental
3	Incremental
4	Incremental
⋮	⋮

Backup Set

Retrospect Backup Manual

IM Harris



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