Retrospect® for Windows

Hybrid Data Protection for Small & Medium Business

Brought to you by Retrospect, Inc.

Retrospect
WINDOWS

BACKUP & RECOVERY
MULTI SERVER

Retrospect delivers a complete and secure hybrid data protection solution for your entire cross-platform network, all with no dedicated IT staff required to manage it.

Retrospect easily automates the backup process for networked computers.

- Makes building a complete and reliable backup strategy easy.
- Works flawlessly in a mixed Windows/Mac/Linux environment without adding cost.
- Auto-detects new, or previously off-line server, desktop & laptop computers and prioritizes their backup.

Retrospect provides enterprise-level features and performance that small and midsize businesses need, without requiring dedicated IT staff to manage backup and recovery operations.

- Hybrid protection backs up to local storage for fast recovery, and cloud storage for added security, archiving and remote DR needs.
- Performs versatile backups and restores with up to 16 simultaneous executable operations.
- Media management benefits make media rotation effortless, and locating data for restore simple.

Retrospect is the backup software that small and midsize businesses rely on to protect their valuable information against costly data loss.

- Industry-leading data verification double checks that data is backed up and restorable.
- U.S. Government-certified encryption ensures that backups and data transmissions are always secure.
- Open files, working databases and other running applications are protected and can be restored up to the moment that they were backed up.

New in Retrospect v11

Cloud Backup
Protect your data offsite by storing it in the cloud. Retrospect 11 for Windows now supports integrated cloud backup to Amazon AWS S3, Google Cloud Storage, DreamHost, and other certified cloud storage providers.

Faster Grooming
Grooming ensures your data is protected with a long-term retention policy that fits within your storage, and now it's built for speed. Reduce the wait for storage savings with performance-optimized grooming, or reclaim as much space as possible with storage-optimized grooming.

Exchange 2016 Database Protection
Retrospect 11 for Windows is certified to protect Microsoft Exchange 2016 with database backups.

Performance Improvements
Shorten your backup and restore windows with a 20% performance improvements in Retrospect 11 for Windows.

Retrospect
WINDOWS

Retrospect® for Windows

Core Retrospect Product Line

Retrospect Multi Server
Protects any number of networked Windows, Mac, and Linux servers, desktops, and notebooks from a single host computer running Retrospect. Supports cloud, disk and tape storage devices.

Retrospect Single Server
Protects one server and any number of networked Windows, Mac, and Linux desktops and notebooks from a single host computer running Retrospect. Additional server client licenses can be purchased to protect more networked Windows, Mac, or Linux servers. Supports cloud, disk and tape storage devices.

Retrospect Single Server (Disk-to-Disk) 5 Workstation Clients
Protects a single Windows Server and five networked Windows, Mac, and Linux workstations. Supports cloud and disk storage devices.
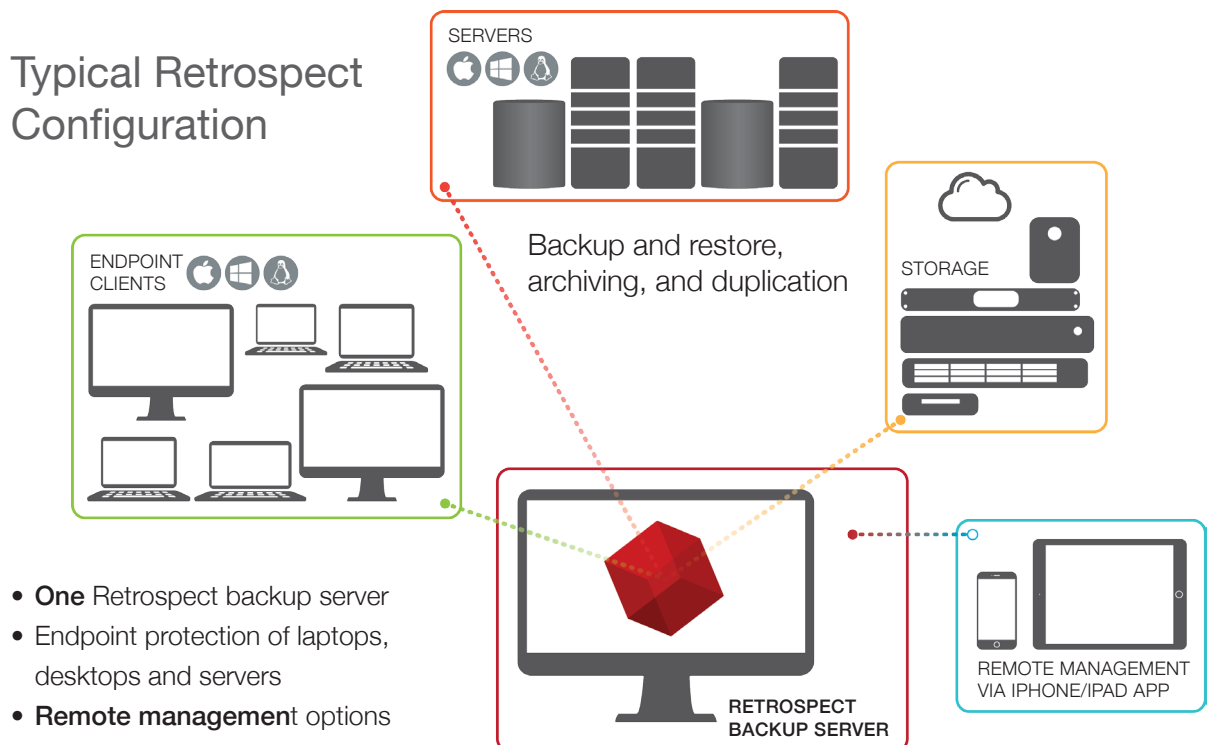
Retrospect MS (SBS) Essentials with Exchange and SQL
Protects a single Windows Server running MS SBS 2012 Essentials plus unlimited desktop and laptop workstations. Includes Exchange, SQL, Open File Backup and Dissimilar Hardware Restore agents. Supports cloud, disk and tape storage devices.

Retrospect Desktop
Protects a single non-server Windows PC and up to five additional Windows, Mac, and Linux desktops and notebooks. Supports cloud, disk and tape storage devices.

Typical Retrospect Configuration

SERVERS

ENDPOINT CLIENTS

Backup and restore, archiving, and duplication

STORAGE

- **One** Retrospect backup server
- Endpoint protection of laptops, desktops and servers
- **Remote management** options

RETROSPECT BACKUP SERVER

REMOTE MANAGEMENT VIA IPHONE/IPAD APP

www.retrospect.com

Retrospect Add-on Product Line

Add-ons may be purchased separately from the base product to increase Retrospect's functionality. See the chart below to know which add-ons are available for each product.

Open File Backup Unlimited and Disk-to-Disk

Protects open files on NTFS-formatted volumes on Windows servers, desktops, and laptops. This add-on makes it possible to protect line-of-business applications—such as accounting, CRM, and proprietary database systems—while they're running, including those with data files spread across multiple volumes.

Dissimilar Hardware Restore Unlimited and Disk-to-Disk

Makes it possible to recover an entire boot volume or Windows Server—including the OS, applications, registry, and data—to a different physical computer, such as a newer model or even one from a different manufacturer entirely.

Microsoft SQL Server Agent

Provides hot backups of Microsoft SQL Server 2014, 2012, 2008, and 2005. Automatically restores a SQL Server or individual databases to a specific point in time. Licensed for use on a SQL server running either the Retrospect application or as a Retrospect Client; includes a Retrospect Server Client license.

Microsoft Exchange Server Agent

Provides hot backups of Microsoft Exchange Server 2016 databases, and 2013, 2010, 2007, and 2003 storage groups, databases, and mailboxes. Automatically restores an Exchange Server or individual components to a specific point in time. Licensed for use on an Exchange Server running either the Retrospect application or as a Retrospect Client; includes a Retrospect Server Client license.

Advanced Tape Support

Improves backup times by utilizing multiple tape drives in parallel, including multiple stand-alone drives, drives in libraries, or drives in autoloaders. The Advanced Tape Support add-on is licensed per Retrospect host server, not per tape drive. For example, only one Advanced Tape Support add-on license is required for a library with four tape drive mechanisms.

VMware Host Server

Protects VMs with file-based agent-less backups and restores in ESX 4 and ESXi 5 environments.

Retrospect Client Packs and Server Client Packs

Extends the number of networked desktops and notebook computers (Client Packs) or networked servers (Server Client Packs) that can be backed up using Retrospect Disk-to-Disk or Desktop editions.

Annual Support & Maintenance (ASM)

Provides technical support via email and phone (available in select regions) and all upgrades/ updates of purchased product at no additional cost for 1 year from the date of ASM purchase.

Retrospect® for Windows

Retrospect Makes Backups Easy and Automatic

Getting Started Wizard	Retrospect guides the new user through setup and running their first backup, whether it's for a single server or a whole network of systems.
Automatic Device Configuration	Retrospect recognizes supported devices automatically and makes them available for immediate use without the need for manual setup.
Protects Everything	Retrospect runs with administrator-level access, so it can easily back up all files on servers, desktops, and notebooks.
Runs in Virtual Guest Environments	Retrospect Client software can be used to natively back up Windows, Mac, or Linux machines running in virtualized environments.
Backup, Restore, and Copy Assistants	Retrospect's assistants make it easy to perform the most common manual and scheduled operations.
High-level Dashboard	Retrospect's High-level Dashboard provides a high-level view of the entire state of your backup environment. See at a glance what backups are running, how much you've backed up in the last week per day, which computers aren't protected, the state of your storage, and more.
Proactive Backup	Need to protect laptops that come and go from the network? Retrospect's Proactive Backup feature watches for computers and automatically backs them up when they connect to the network.
Back Up and Restore On Demand	Retrospect Client software allows each user to quickly back up important files or folders and even run their own restores right from the Desktop.-Supports Windows and Mac clients.
IMPROVED Automatic Grooming	Retrospect's Grooming feature lets you decide how many backups to keep, and it will automatically remove older data from Disk or Cloud media sets when it needs more storage space. Choose from two options: Performance-Optimized grooming, for the fastest grooming speed, or Storage-Optimized grooming for maximum space recovery.
Smart Incremental Backups	Retrospect intelligently backs up only new and changed data since your last back up, but delivers accurate restores every time.
Block Level Incremental Backups for large files	Retrospect now has the ability to back up only the parts of a file that have changed. After an initial full backup, Retrospect searches out the changed pieces of each large file and only backs up those blocks, speeding up backups and using less storage space.
Automatic File-level Deduplication	Retrospect maximizes storage usage by only copying unique files—even across multiple computers—to the backup media.

Retrospect Makes Backups Easy and Automatic

Bare Metal Disaster Recovery	Boot media can be created for nearly every Windows system protected by Retrospect to provide fast recovery from a non-bootable state. Now supports the latest hardware and OSes including Windows 8.1, Windows Server 2012 R2, and 64-bit machines and drivers.
Dissimilar Hardware Restore (add-on)	The Dissimilar Hardware Recovery add-on allows Retrospect to perform a complete restore—including the operating system—to entirely different hardware. Now supports the latest hardware and OSes including Windows 8.1, Windows Server 2012 R2, and 64-bit machines and drivers.
Easy Physical Media Rotation	Instead of needing to rely on complex media rotation schemes, such as Grandfather-Father-Son, Retrospect allows the user to rotate physical media as they see fit, and it automatically copies the files needed to keep each Backup Set complete.
Email Reporting	Customizable email feature lets you configure Retrospect to notify you of whatever information you need - get notified only when there is a problem, receive notifications for every completed backup script, etc. The included log lets you see what happened, wherever you are. Emails deliver critical information in the subject line so that you can see that an operation completed successfully without opening.
Control and Monitor Retrospect from iOS	Use the free Retrospect iOS app on an iPhone, iPad, or iPod Touch to keep tabs on backups over Wi-Fi or 3/4G.
Apple Notification Center Messages	Using Notification Center, Mac users can be notified when a backup of their computer begins and when it's finished.
Windows Notification Area Support	The Retrospect Client software uses the Notification Area to alert end users when backups are starting or have finished.
Private File and Folder Options	Users can easily drag and drop files, folders, and even entire volumes like flash drives to the client control panel to mark them private, so they won' t be copied during a backup. Supports Mac clients.
Roll-back Restores (Live Restores)	Retrospect is able to easily roll back a functioning computer to a previous state. Simply restore over the volume that includes the running operating system and reboot.
Auto-Locates Network Clients	When used with a public/private key, Retrospect will automatically connect to new client computers on the network and even back them up without manual intervention.
Automatic Software Updates	Retrospect will periodically check for software and device driver updates and notify the user when updates are available for download.
Wake-on-LAN for Green Backups	To reduce the overall power demands for backups, Retrospect awakens sleeping/stand-by mode computers to back them up and then allows them to return to their low-power state.

Retrospect® for Windows

Retrospect is Powerful and Flexible

Backs Up Mac, Windows, and Linux	Heterogeneous networks are protected using Retrospect's client software, ensuring perfect backups regardless of operating system. Includes native 64-bit Linux Support.
Full Hybrid Backup Solution	A single copy of Retrospect delivers backup to local destinations for quick access, and cloud destinations for added security and archiving.
Back up to multiple Disk destinations	Retrospect can make use of multiple hard disk destinations, whether grouped together or used independently; connected directly via USB, FireWire, or eSATA; or when networked using Ethernet, iSCSI, or Fibre Channel.
Uses Disk, Removable, Cloud, and Tape	Retrospect supports most types of magnetic media for backup, hard disk drives, network-attached disk, S3 cloud storage, flash media, and every major tape format.
VMware Integration (Add-on module)	Retrospect server-level products support file and image-based off-host backups of VMs in ESX 4 and ESXi 5 environments.
Disk-to-Disk-to-Disk (D2D2D) Backups	Retrospect can transfer specific or all backups between Backup Set destinations, making it trivial to back up nightly to network-attached storage and then transfer just the most recent nightly backups to a portable hard disk for safe, offsite storage.
Disk-to-Disk-to-Tape (D2D2T) Backups	Retrospect can stage backups to disk before transferring them to tape, ensuring that the fastest possible throughput is achieved at each stage. Disk-based backups can also be copied to tape for safe, offsite storage or archiving.
Microsoft Exchange Support (add-on)	Retrospect employs Microsoft's Volume Shadow Copy (VSS) technology to protect Microsoft Exchange Server 2016/2013/2010/2007/2003 while running.
Microsoft SQL Server Support (add-on)	Retrospect protects single and multiple instances of Microsoft SQL Server 2014/2012/2008/2005 and MySQLwhile running.
Advanced Tape Support (add-on)	This add-on allows Retrospect to stream backups to multiple tape drives at the same time, whether installed in a single library or standalone.

Retrospect is Powerful and Flexible

Complete Mac OS X Disaster Recovery	Retrospect for Windows employs native Mac OS backup client software for comprehensive backups that include all the proper metadata and system components to provide complete disaster recovery restores of protected Macs.
Flexible Scheduling	Backup, copy, archive, and restore operations in Retrospect can be scheduled to meet any agenda.
Powerful Search Capabilities	Retrospect can locate files not only by name and location, but also by a multitude of other criteria, including modification date, Finder label, size, and even security permissions.
Powerful Filtering	To include or skip specific files, folders, and volumes, or to back up only specific data to cloud storage, Retrospect includes both built-in and user-definable selectors that filter data based on a multitude of conditions, including file names, dates, and types.
Space-saving Data Compression	Built-in data compression routines and support for hardware-based compression present in tape drives comes into use after Retrospect performs its file-based deduplication, further reducing backup storage requirements.
Instant Scan Speeds Backups	Retrospect Clients already know what files have been added or changed before the backup server even connects, cutting average nightly backup times in half. The same technology is also used on the backup server.
Performs Multiple Tasks Simultaneously	Need to run a restore without interrupting ongoing backups? Need to back up multiple laptops at the same time? Retrospect server editions perform up to 16 simultaneous operations.
Support for Multiple Network Interfaces	Retrospect can take advantage of multiple network interface cards to improve performance and to prevent traffic from crossing subnets.

Retrospect is Reliable and Secure

Administrator Feature Control	The backup administrator can control access to end-user features like marking private files, running an on-demand restore, or stopping a backup that's in progress.
Network Link Encryption	Retrospect will optionally encrypt communications between network clients and the backup server using strong AES-256 encryption to prevent network snooping of private information. Now supports strong encryption for Windows and Mac clients.
Precise Restores Every Time	Because it saves a complete point-in-time file listing of every backup, Retrospect always restores exactly the files that belong on a volume; no unwanted files get restored that later require cleanup.
Multiple Backup Sets for Offsite and Archival Storage	Retrospect employs multiple storage destinations—called Backup Sets—and tracks each independently to provide for easy offsite storage and maximize restore reliability.
Protects Open Files	Retrospect uses Microsoft's Volume Shadow Copy (VSS) technology to protect open files that might be in use at the time of the backups. The same point in time can be captured for files spread across multiple volumes, ensuring data integrity for complex systems.
Industry-leading Data Verification	When verifying data copied during the backup process, Retrospect employs the restore routines in the software to do a byte-by-byte comparison against the original, verifying not just the data but the entire restore process. Verifying the restore process and data together provides the most reliable method of verification available anywhere.
Anytime Verification	For tight backup windows where backups must be as fast as possible, Retrospect can verify the backup data at a later time by using a checkpoint method that does not burden the disk containing the original data.
Backup Media Encryption	Retrospect provides multiple encryption options for safeguarding backup data against unwanted access, including government standard AES-256 encryption.
Secure Client Access	Retrospect Client software is either password protected or deployed using a public/private key method for added security. The proper credentials must be presented to log in and back up the client machine.
S.M.A.R.T. Alert Aware	The Retrospect software communicates to the backup server when a hard disk drive begins to fail so it can be backed up immediately.

Retrospect is Reliable and Secure

WORM Tape Compliance Support	Retrospect fully supports write-once, read-many tape media for strict compliance with various regulations, including Sarbanes-Oxley.
Scheduled Tape Drive Cleaning	Retrospect helps maintain drives in tape autoloaders and libraries by periodically loading a cleaning tape cartridge. Cleaning reminders are provided for standalone tape drives.
Over two decades of Innovation	Millions of users rely on Retrospect to protect their critical information.

System Requirements for Retrospect 11 for Windows

Supported Operating Systems
- Microsoft Windows XP, Vista, 7, 8, 10
- Microsoft Windows Server 2003, 2008, 2012, 2012 R2
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows SBS 2003, 2008, 2011
- Microsoft Windows Storage Server 2003, 2008

Supported Hardware
- Intel processor (32-bit and 64-bit) with one or more multicore processors

System Recommendations
- Latest Service Pack for Windows
- For Windows 10, Retrospect requires the 64-bit version
- 1 GB for each concurrent activity; 3 GB minimum for 32-bit Windows, 4 GB minimum for 64-bit Windows
- 10-15 GB of temp hard disk space for each concurrent activity (backup, restore, etc.)
- Adequate storage for backups
- RAM that meets Microsoft's guidelines for each OS

System Requirements for Retrospect 11 Client for Windows

Supported Operating Systems
- Microsoft Windows XP, Vista, 7, 8, 10
- Microsoft Windows Server 2003, 2008, 2012, 2012 R2
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows SBS 2003, 2008, 2011
- Microsoft Windows Storage Server 2003, 2008

Supported Hardware
- Intel processor (32-bit and 64-bit) with one or more multicore processors
- System Recommendations
- Latest Service Pack for Windows
- RAM that meets Microsoft's guidelines for each OS

Protecting Servers
Backing up server OS clients requires Retrospect Multi Server or other Server edition with available Server Client Licenses.

System Requirements for Retrospect 11 for Windows, Cont.

System Requirements for Retrospect 13 Client for Mac

Supported Operating Systems
- OS X El Capitan / El Capitan Server 10.11
- OS X Yosemite / Yosemite Server 10.10.5
- OS X Mavericks / Mavericks Server 10.9.5
- OS X Mountain Lion / Mountain Lion Server 10.8.5
- OS X Lion / Lion Server 10.7.5
- OS X Snow Leopard / Snow Leopard Server 10.6.8

Supported Hardware
- Intel processor with one or more multicore processors

System Recommendations
- Latest Software Update for OS X
- RAM that meets Apple's guidelines for each OS

Protecting Servers
Backing up server OS clients requires Retrospect Multi Server or other Server edition with available Server Client Licenses.

System Requirements for Retrospect 11 Client for Linux

Supported Operating Systems
- The following Linux distributions are supported on x86 and x64:
- CentOS 6.4, 6.5 and 7
- Red Hat Enterprise Linux 7
- Debian 7.6
- Ubuntu Server 14.04
- SUSE 11 Enterprise Server 11 SP2 and SP3

Protecting Servers
Backing up server OS clients requires Retrospect Multi Server or other Server edition with available Server Client Licenses.

Questions?
Contact Retrospect sales by scanning the QR code or visiting retrospect.com/contact_sales