

Backup and Disaster Recovery

RetroFit's Backup and Disaster Recovery Solution is monitored and managed by RetroFit's NOC on a 24x7 basis. Not only do we monitor the entire solution – Servers, NAS and Remote Storage facilities - we are capable of performing restorations and virtualization of servers.

Backup and Disaster Recovery Services

- **File/Email Restores** – Easily restore files or emails from the NAS by calling our NOC. We mount the right volume on the NAS to allow searching and file restoration.
- **Server Virtualization** – If your server crashes hard, one call to our NOC and the NAS is reconfigured to emulate your lost server. You'll be up and running within an hour or two!
- **Server Restoration** – When your new server arrives, simply call our NOC and your original server's image is pushed onto it. No lengthy server rebuilding – you'll be up and running the same day!
- **Disaster Recovery** – Your server image is stored at two remote data centers. In the event of a disaster – both servers and NAS are inoperable – our NOC will arrange for a new NAS with your servers virtualized on it. The NAS will be shipped to you in about 48 hours.

Our solution replaces management intensive, error-prone tape backups while providing much, much more!



RetroFit offers a complete, cohesive Backup and Disaster Recovery Solution (BDR) for Windows 2000 and above servers.

Our solution provides near real-time backups that include seamless off-site data storage. We keep your NAS healthy by maintaining and monitoring anti-virus on the NAS. RetroFit monitors all aspects of the NAS including, but not limited to CPU and network utilization, memory usage and disk space.

Consider the following features:

- Block Level Backups – 15 minute incremental updates
- Security – 256K AES encryption
- Smart Data Transport – Won't slow down your WAN
- Virtualization of each server tested Monthly
- Onsite and Offsite Solution
- Recovery Services after a Catastrophe
- Near-line Disaster Recovery and Failover Using Virtualization Abilities

It's here....a solution to bullet-proof your data!

How it works

Configuration

The NAS device can be configured to backup multiple Windows 2000 and above servers and their volumes or logical drives. There are no file or folder level exclusions because a snapshot of the entire volume is taken at the block level. RetroFit monitors all aspects of the NAS – CPU utilization, memory usage, network utilization, disk space, etc.

Incremental Forever Methodology

Incremental Forever Methodology performs a backup of all changes since the last backup. Only one full backup or base image is required to run this technology. This greatly reduces the time it takes to perform backups as each Incremental takes only seconds to complete. Please note that the frequency of off-site backups is limited by the amount of available bandwidth at your site. Our solution adjusts bandwidth utilization, as needed.

Base Image

The base image is the first backup that occurs on the server which is a complete image of the volumes intended for backup. The base image serves as a starting point for all incremental backups.

Incremental Backups

The Incremental Backups are the changes on the hard drive since the last backup. There are nearly 100 Incrementals in a 24 hour period if the backup frequency is set to every 15 minutes! We monitor the collapsing of daily, weekly, and monthly incremental backups as well as the offsite transfer of daily incremental collapsed images.

Synthetic Incrementals (SI)

Synthetic Incrementals (SI) are the result of collapsing multiple Incremental snapshots into a single file or Incremental. The Daily SIs are created at the end of the day leaving you with a single recovery point for that day. The SIs result in a complete archiving solution that takes less than a minute to complete!

Recovery Options

Recovering files and folders is a simple process where the entire server is mounted as a volume on the NAS device. The files can then be copied to the destination server over the network.

Virtualization

RetroFit's NAS device is capable of virtualizing failed servers while keeping the exact system state previous to the failure. Once virtualized, the server will resume the same backup schedule previous to the failure.

Bare Metal Restore

When it comes time to restore the Virtualized Server back to physical hardware, RetroFit's Bare Metal Restore process allows restorations to dissimilar hardware.

Monitoring and Management

RetroFit's total Backup Disaster Recovery (BDR) solution is continuously monitored and managed by our NOC team on a 24x7 basis. If an issue occurs during any backup or with the hardware, RetroFit is immediately notified and will take corrective action. On a weekly basis, we verify that the chain of incremental backups is working properly.

ABOUT RETROFIT TECHNOLOGIES, INC.

Since 1983, RetroFit Technologies has been an IT solutions company that specializes in managed IT services, backup and disaster recovery, project management, hardware sales, and support and maintenance. Since 1994, RetroFit has held all major statewide technology procurements contracts in Massachusetts.

For additional information about RetroFit, visit our website at www.retrofit.com or call us at 508.478.2447.