



Tectrade

Your data protection & recovery partner



Data Protection

FASTER NAS BACKUP

Solve the 'million file' problem

Data growth in unstructured data for an enterprise running at 80%. Backing up large network attached storage (NAS) data is painful, time consuming and unreliable.

NAS systems have grown. Unstructured data now accounts for more than 90% of our digital universe with 1.8 trillion gigabytes in 5000 quadrillion 'files.' When NDMP was first introduced a very large NAS dataset might have been 10TB. Today they are typically 100's of TB to PBs.

Traditional backup approaches such as NDMP (Network Data Management Protocol, for transporting data between network attached storage (NAS) devices and backup devices) are unable to keep pace in providing fast, incremental forever backups, efficient storage and fast RTO's. This leads to issues such as:

- Increasing data volumes meaning that backups are not possible in 24 hours leaving an exposure in disaster recovery capability; making your RPO day or weeks rather than hours
- If there was a ransomware attack this could mean you were unable to recover NAS data and with increasing critical systems relying on NAS data, this would affect your day to day operations
- Costs spiral as your backups end up consuming large amounts of space and resources as they must store periodic full backups
- Increased backup failure rates due to user activity can mean only 50-70% of your data is backed up successfully
- Individual file recovery becomes very difficult as finding and restoring from a 'million files' is time consuming and unreliable.

There is another way: Fast and reliable NAS Backup

Tectrade enable faster NAS backup by backing up file systems incrementally each day, reducing the amount of data to be transferred. We break up the data into many and then breaking up the data into many parallel jobs which accelerates the identification of changed files so it becomes manageable and achieves RTO and RPO objectives.

Using technology from dsmlSI MAGS in conjunction with IBM Spectrum Protect enables Tectrade to provide incremental backup of large production file services for the wide range of NAS vendors including EMC, HDS, HP, IBM NetApp and even generic Windows file servers.

We provide continuous backup of file systems entirely incrementally using IBM Spectrum Protect and then combined with General Storage dsmlSI MAGS we are able to accelerate the identification of changes and the resulting movement of data by orders of magnitude.

How does it work?

Using this technology combination, we can split a NAS file systems into hundreds or thousands of more or less equal chunks and scan them in many parallel streams allowing many incremental backups to be run in parallel.

The process makes sure there is no overlapping, and nothing is left out and works as a single, scheduler friendly job, with a single return code and without interfering with the data at all.

First full backups will typically take a considerable period, depending on several factors including the size of the file share, number of files and underlying infrastructure for the server. However, once the first full is complete incremental forever backups are possible and the real business benefits of are realised.



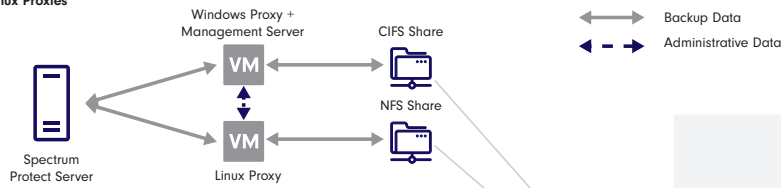
Realise the benefits for your organisation:

- Gain up to 99% reduction in your backup window
- Provide assurance that ALL data is backed up
- Enable faster restore speeds to meet your RTO/RPO objectives
- Be able to recover NAS files from ransomware or any kind of disaster fast
- Provide continuous optimization of backup configuration order to use available resources (CPU, RAM, scan depth, etc.) to greatest possible effect
- Provide the ability to recover individual files from NAS storage
- Provide snapshots of a file system to avoid errors resulting from user activity during backup

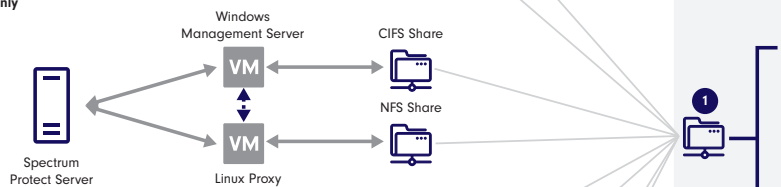
If you want to understand how this could work for you, we can setup a quick proof of concept using a 30-day trial license to enable to the solution to be proven before look to replace your existing NDMP or filesystem backup solution.

Tectrade protect, recover, manage, store and secure, petabytes of data for organizations around the world. With decades of experience, industry leading technologies, a proven track record and a relish for tackling new problems, we are confident we can deliver the almost - impossible.

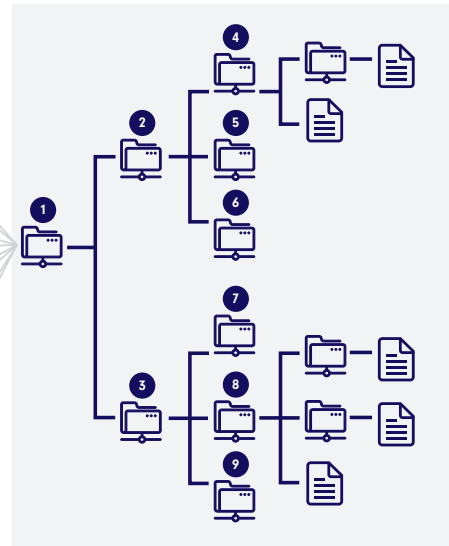
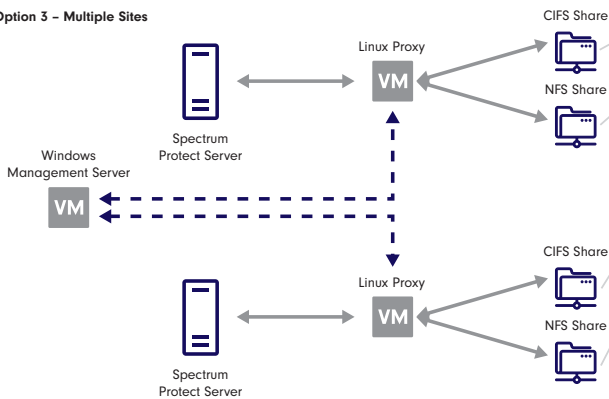
Option 1 - Windows + Linux Proxies



Option 2 - Linux Proxy Only



Option 3 - Multiple Sites



Each share is connected and then broken up in to jobs based on the folder structure, and then automatically tuned as performance statistics gather

Three tier architecture, designed to provide fast recoveries with insurance against data loss using data protection technologies.

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