

Challenges of managing networked Windows storage

While budgets shrink, IT organizations must manage the growing volume of unstructured data. The most convenient way to contend with data growth is to add new, inexpensive storage, but this is only a temporary solution. As storage devices proliferate across company networks, maintaining them – monitoring capacity, performing upgrades, and supplying power and cooling – quickly becomes expensive.

In addition, managing the data spread across heterogeneous devices is a complex, risky proposition: more data on more devices is difficult to monitor and maintain. Strategies for disaster protection, business continuity, and high availability become more difficult to plan and execute.

AutoVirt creates an easy-to-manage virtual storage pool

From device upgrades to disaster protection, manage storage with one platform

AutoVirt is a software platform for Windows that consolidates file servers and NAS devices into a single, tightly managed system. By ensuring that users have a consistent point of access to their data, AutoVirt allows IT administrators to automate the movement of data within their Windows storage environments. As administrators move data to where they need it to be – business-critical data to a new device, a replica to a secondary location, last year's share to Tier 2 storage – clients are automatically redirected to the new location of their data.

By eliminating impact on end-users, AutoVirt removes a number of logistical barriers to project execution and frees IT to approach storage management more dynamically.

With AutoVirt, IT administrators can design policies to automate archiving, copying, data measurement, migration, and replication. A policy is a series of logical and validation commands defined using a GUI-based wizard. Policies are schedulable and include configurable e-mail alerts and exception handling.

Out-of-band, automated data management

- *Measure*
- *Copy*
- *Migrate*
- *Replicate*
- *Archive*
- *Tier*

Install and operate AutoVirt in less than a day, without professional services

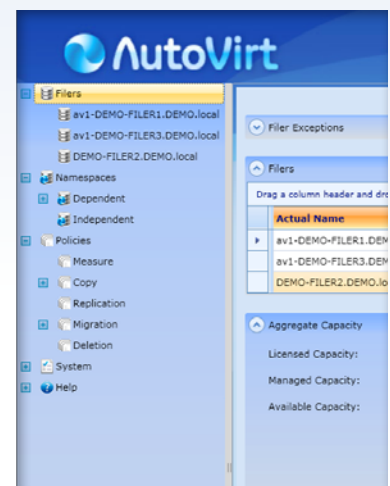
Schedule and automate storage management activities from a web-based console

Reduce maintenance windows for storage management

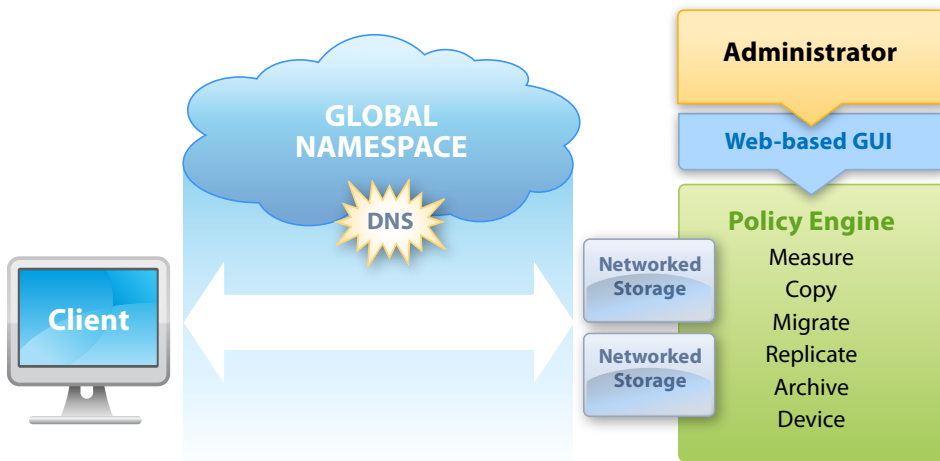
Modify networked file storage without remapping client links

Preserve ACLs automatically, for every data management task

Improve file system organization



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How does AutoVirt work?

AutoVirt inserts a global namespace to organize networked shares and shield end-users from the back-end logistics of storage management. A policy engine automates storage management tasks.

The AutoVirt global namespace lets IT create multiple, logically organized client views of networked files, independent of location and accessible using existing client shortcuts. The namespace eliminates the manual work involved in maintaining client access to networked data: it is the single authority on networked files, and automatically resolves client shortcuts to the new location.

With AutoVirt's global namespace registering all changes to data location, it is possible to run policies that automate storage management tasks – including those that affect data location.

AutoVirt policies give IT administrators the control to manage data throughout its entire lifecycle.

System Requirements

- Windows 2003 Active Directory
- Dynamic DNS (DDNS) enabled
- Windows file servers, EMC, or NetApp
- All file servers on a single domain
- Installation prerequisites: 1 Microsoft Windows IIS server; 2 Windows servers (physical or virtual)

AutoVirt Benefits

- **Substantial cost savings.** Perform consolidations and vendor swaps faster, without professional services
- **Time savings.** Eliminate scripts or manual client remapping and ACL assignments
- **Adaptability.** Implement new technology quickly, with less risk
- **Flexibility.** Move data anytime, anywhere, without disrupting user access
- **Real-time redundancy.** Implement replication with automated failover.
- **Network Performance.** AutoVirt continuously evaluates network conditions and throttles its activities accordingly

AUTOVIRT POLICIES

MEASURE	COPY	MIGRATE	REPLICATE	ARCHIVE	DEVICE
<p>Accurately predict the appropriate size for a destination target</p> <p>Count the number of files or measure the amount of free space in a given share, volume, or entire filer</p>	<p>Merge or Sync</p> <p>Filter to define copy parameters by file size, type, or create/modified time</p> <p>Bypass and log all exceptions with non-stop copy feature</p>	<p>Incremental migrations follow a customizable schedule</p> <p>Optionally pre-seed the migration target and sync the data to complete the migration</p> <p>Clients are automatically redirected to the new data location</p>	<p>Provide disaster protection and high availability</p> <p>Schedule replication frequency</p> <p>Enable automatic failover from master to replica in the event of a file server failure</p> <p>3 Topologies: availability, centralization, distribution</p>	<p>Filter to select files for archiving by file size, type, or create/modified time</p> <p>Maintain read-only access to archived data via existing shortcuts and native file pointers</p>	<p>Transfer data from digital media devices to file servers</p> <ul style="list-style-type: none"> • CAD • MRI machines • CD/DVD • Microscopes • Proprietary industrial devices