Solution-Soft's SafeVelocity Recast as a WAN Data Migration Tool

The Customer, an international independent information technology services firm with over 14,000 employees wishes to remain anonymous due to the sensitive nature of their clients business.

The challenge

The IT Services Firm is working to centralizing the data storage and application servers for a customer with 40 locations. The data from over 100 OS2 servers will be transferred to Network Appliance Filers networked with a redundant cluster of NT servers at the IT Services Firm's data center in Novato California and a fail-over data center in Phoenix Arizona. Once this process is complete the OS2 servers are to be de-commissioned.

To minimize disruption of business operations at the 40 locations during the data transfer process, the data migration will be completed during weekend periods. The weekend transfer required that the data migration from each individual office to the corporate data-center be completed in 24 hours or less.

The challenge was that total amount of data, speed of the networks, how the data was constructed and where it resided didn't allow for fast, reliable and secure transmissions of data. The data at each location ranged from 10GB - 52 GB per location. The transfer rates ranged from 256K to T1 speeds. Most of the key data resided on network attached drives. A sample of the data to be transmitted was constructed of directories with 1,700+ subfolders comprised of over 77,000 separate files.

Robocopy and xcopy were tested and proved to be slow and unreliable when they were able to complete the process. Each product often required more than 48 hours to complete the process.

The SafeVelocity Solution

On the strength of the IT Services Firm's use of another Solution-Soft product, Time Machine, they engaged with Solution-Soft and began testing with SafeVelocity. SafeVelocity is a WAN Data Migration Tool specifically suited for securely transmitting large amounts of data over unreliable networks. The IT Services Firm contacted Solution-Soft and articulated the specifications and requirements of the project. Solution-Soft's development team programmed a custom build of SafeVelocity to meet the specific requirements of the project.

The IT Services Firm's tests with SafeVelocity proved very successful and the migration of the data was reduced from over 48 hours with Robocopy/xxCopy to less than 12 hours with SafeVelocity. SafeVelocity resulted in a 4 X data transfer rate improvement also a more reliable and secure data transfer was achieved using SafeVelocity. SafeVelocity's unique features such as on-the-fly compression, pass word and user name encryption, block level check sum, and auto resume feature allowed the users to map to a network attached drive, quickly transfer the data and ensure the integrity of the data during the process.

Results from first migration:

With SafeVelocity the data migration was completed in a total of 3 hours to transmit 1.7 GB of data vs. approximate 17 – 30 hours if competing technologies were used.

256kb WAN link:
1.72 GB total size
17,812 files
1,371 folders

Log file:
Start SVTP "WAN" Copy…
Time started:
08/09/02 12:45:47

Ending SVTP "WAN" Copy…
Time completed: 08/09/02 15:45:37

Transfer Log

About Solution-Soft

Solution-Soft is the leading provider of Intelligent Data Optimization (IDO) solutions, which address the urgent need for automated management of data in complex networking environments. IDO solutions facilitate automated data selection, movement, and redirection that optimize high availability, storage scalability, and system performance. The company has developed robust data-management software solutions for corporate data centers and storage solution providers. Solution-Soft boasts more than 1,500 customers, including 3M, AT&T, Boeing, Cable&Wireless, French Telecom and UMC. Solution-Soft's market presence is bolstered by partnerships with Citrix Systems (NASDAQ:CTXS), FalconStor. (Nasdaq:FALC), Hewlett-Packard (NYSE:HWP), IBM (NYSE:IBM), Microsoft (Nasdaq:MSFT), Oracle (Nasdaq:ORCL) Sun Microsystems (Nasdaq:SUNW), Synopsys, Inc. (Nasdaq:SNPS) and others.

Founded in 1993, Solution-Soft is privately held and based in Santa Clara, Calif. For more information, visit www.solution-soft.com or call +1.408.346.1400.

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