

LinkPro® Technologies

Web Site Mirroring From A Staging Server Over Multiple Web Server

Introduction

More and more companies are hosting their Web sites on more than one Web server. Load balancing a Web site across multiple servers allows them to improve site performance, minimize downtime, and maintain an automatic backup copy of all of their Web-related files. If the benefits of this approach are clear, so are the costs that are associated with it, which can often exceed the company's Web production budget.

Specifically, mirroring a Web site over N servers is a task that cannot be performed from within the most common HTML editors, such as Macromedia® Dreamweaver, Adobe® GoLive. The Web production team, which typically uses such programs, must turn to another application to handle the task. Sophisticated software (*e.g. Microsoft® SiteServer*) and hardware solutions (*e.g. F5 Global Site*) are available to effectively handle Web site mirroring, but they are in most cases expensive to deploy and maintain.

Because of budget and/or human resource constraints, small- and medium-sized companies often end up solving the problem in a manner that is far from ideal. That is, transferring files to each server separately using standard FTP clients. PowerSync® real-time file replication capabilities can provide a cost-effective solution to the problem of efficiently publishing a Web site to multiple servers.

File Replication: Some basics

File Replication, in the context of computer networks, is an automated method for distribution of synchronized data usually to many geographically dispersed networked PCs and servers. LinkPro's File Replication software manages a process whereby a source directory is replicated onto one or more destination directory(s) by adding, deleting, and updating files on the destination until they match those on the source. Only the files with differences are acted upon. This automated process reduces the chance of human error and ensures that the file replication takes place either on schedule or in real-time.

Web Site Mirroring: Some basics

Web site mirroring refers to the method of replicating exact copies one Web site (*i.e. Web pages, graphics, related documents etc.*) over multiple servers. The site's content becomes available at any given time from any number of servers, which can be geographically dispersed to reduce the average number of hops between the server and the visitor's PC. Mirrored Web sites typically allow for increased page delivery speed and minimize downtime. Traffic to a Web site that is mirrored across multiple Web servers is redirected to the least busy server via a process called *load balancing*.

Web Site Mirroring with PowerSync®

PowerSync® can simplify the task of managing Web content across multiple local or geographically distributed servers. Its features provide automatic directory and file replication from a staging server to multiple destination Web servers over LANs, WANs and VPNs. PowerSync® performs scheduled and

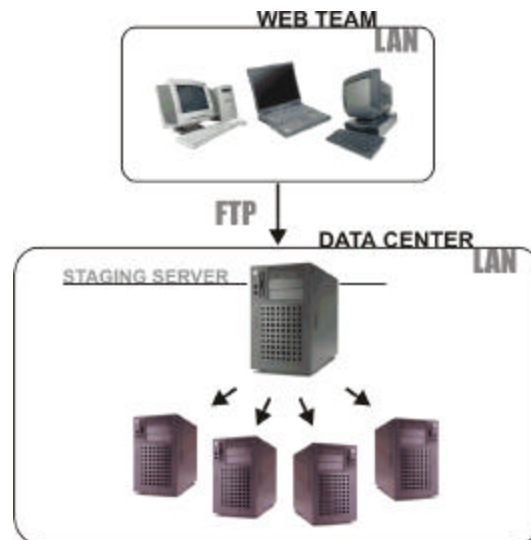
real-time automatic data replication running as a service on the staging server. The software is able to distribute data to the remote servers from the staging server using one-to-many file replication for synchronized data distribution. Among its features:

- Easily move data from one source to multiple destinations for automated application data distribution.
- Provide scheduled or real-time operation
- Automatically distribute and synchronize files over WANs to any remote site.
- System administrators specify directories to be kept synchronized during data transfer.

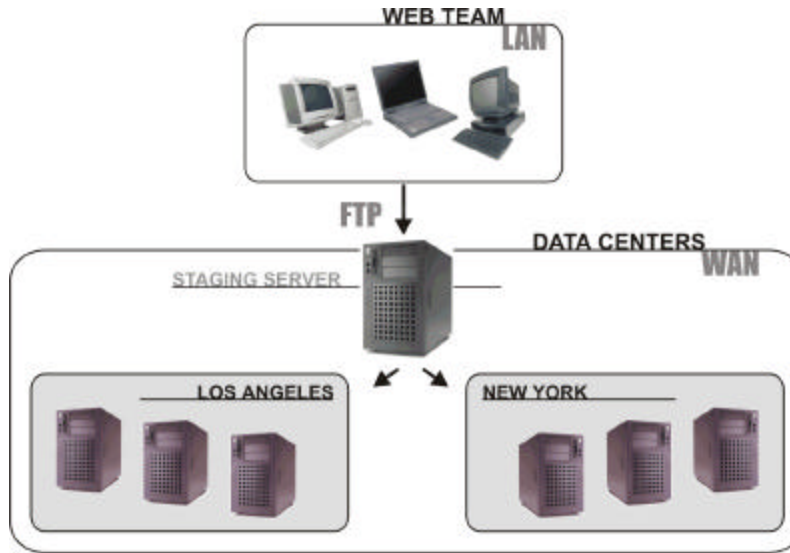
Web Site Mirroring Scenarios

The following scenarios illustrate how LinkPro's File Replication software can be used to provide automatic Web site mirroring across multiple servers.

CASE 1 - The company's Web servers are all located inside one data center, which resides outside of the company's computer network. Members of the Web production team publish new files to the staging server via FTP. The team manager administers PowerSync® to run scheduled or real-time replication of updated Web site files after reviewing them on the staging server.



CASE 2 - The company's Web servers are all located in two geographically dispersed data centers, which however are part of a wide area network as they belong to the same Web hosting provider. The location of the staging server is irrelevant as long as it is part of the WAN. Members of the Web production team publish new files to the staging server via FTP. The team manager administers PowerSync® to run scheduled or real-time replication of updated Web site files after reviewing them on the staging server.



LinkPro's File Replication Software

Product Overview

PowerSync® 5.0-RTS provides flexible and intelligent real-time file replication for Windows NT & 2000 servers on LANs WANs and VPNs. It can automatically replicate directories and files to local and remote locations for data protection or distribution. Replicate remote files to a central site for centralized backup. Provide immediately accessible data backup for production servers for 24x7 operations. Distribute real-time data updates to remote servers from a central site. LinkPro's PowerSync 5.0-RTS offers real-time and scheduled, cross-platform, one-to-many and many-to-one replication of server directories and files across LANs, WANs and VPNs with centralized management.



Product Description

PowerSync 5.0 Real-Time Server is the industry-leading tool for replicating Windows NT/2000 files and directories across local and wide area networks. It provides automatic real-time or scheduled replication, supports one-to-one or one-to-many file or directory replication; and works with Windows NT/2000 to/from Windows NT/2000, NetWare or NAS servers when network drives are shared and accessible across local and wide area networks. PowerSync 5.0 Real-Time Server is an ideal tool for network administrators who are responsible for supporting mission critical Windows NT or NetWare applications running on multiple servers and accessed by large numbers of users performing frequent file updates. PowerSync 5.0 Real-Time Server allows the network administrator to ensure that files, directories, and servers always have up-to-the-minute copies of mission critical application data. When used to support a comprehensive high data availability plan, PowerSync 5.0 Real-Time Server can also ensure that hot standby servers contain the same up to date data as primary servers. When used to support a

comprehensive data storage and vaulting plan, PowerSync 5.0 Real-Time Server can ensure that only recently changed files or directories are migrated from network storage servers to backup media.

Future Network Data Management Products from LinkPro

The development of the PowerSync product line has been deliberate yet, at the same time, it has been responsive to our customer's needs. This product line was first introduced in February 1994 and since then has gained wide acceptance as the maximum data availability and protection solution-of-choice by corporations throughout the world. It is our commitment to continually enhance our leading edge technology and incorporate it in products that meet the changing needs of our customers. Look for future products to comprise a suite of real-time distributed data management products having advanced system administration tools for Windows 95, 98, NT and 2000.

About LinkPro, Inc.

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