

SOLUTION OVERVIEW



IP / Web Server Load Balancing

From Microsoft, Cisco, RADWare, Holon Tech and others

The performance and reliability demands placed on web servers and other Internet / IP based services have created the need for solutions that allow the creation of large web “server farms” to provide increased scalability and fault tolerance. While many hardware and software solutions exist for distributing incoming IP connections across a pool of servers, these solutions require that identical web content be available to all servers at all times providing the user with a consistent view.

One to Many

Double-Take solves this problem by providing true One to Many data replication of standard Windows NT, Solaris and NetWare data. After selecting the files and directories to replicate, simply “drag and drop” to start replication between servers.

Double-Take also provides a full command line interface to allow scripting of all Double-Take functions. Once connected, changes that are made to the designated “master” files are automatically replicated to all servers. There is no built-in limit on the number of target servers allowed.

Efficient Data Transfer

Double-Take transmits data using TCP/IP, the native protocol of the web and offers optional data encryption to customers in North America. Each transmission from the source is kept as a backup until an acknowledgement is received from each target indicating that data has been received. Data held in queue for delivery to multiple sources is only stored once to reduce system resource requirements while data is queued for transmission.

Transmission Control

Double-Take allows control over when and where data is replicated to the target servers. Bandwidth can be limited to a fixed amount, certain times or triggered by events such as time or amount of data to be sent. Data can be directed at a specific NIC allowing a “dedicated” link for replication without impacting incoming user traffic.

Automatic Re-Sync

If a target server fails and “rejoins” the server farm, Double-Take automatically verifies the source data against the replica and re-synchronizes any files that are different.

File Delta Transmission

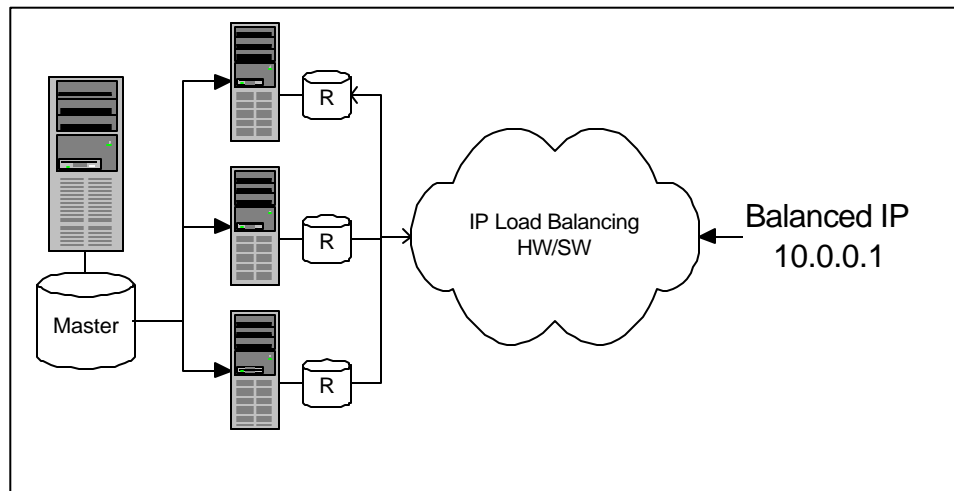
Double-Take transmits only the *changes* made within a file (for example a new record in a database) rather than sending the whole file across the network every time it changes. This can greatly reduce the amount of network bandwidth required for data replication, particularly for large files like databases, video captures and activity logs.

How it work

To address web site scalability problems, a number of hardware and software products have been developed to distribute requests targeted at a single IP address across multiple servers that look and act like a single server to users.

These products range from software only solutions like Microsoft’s Windows Load Balancing Service (WLBS) to hardware based solutions like Cisco LocalDirector, RADWare Web Server Director and Holon Tech HyperFlow2.

Double-Take works in conjunction with these products to ensure that all servers contain identical copies of server data by providing replication from a single master server to multiple read-only replicas.



Double-Take Solutions

Double -Take's real-time data replication and server failover technology enables IT organizations to solve many critical business problems:

High Availability
and/ Failover
Disaster Recovery

Backup Enhancement

Web Content Replication

Data Distribution

Platform Migration

Change Management and
Testing

- ✓ Windows NT, 2000 and Solaris Servers
- ✓ Virtually any application including Exchange, SQL and Oracle
- ✓ Off-Site / Cross-Site
- ✓ Long Distance, WAN speeds
- ✓ Shared Bandwidth
- ✓ Use existing backup software
- ✓ Enables 24x7 Backup Window
- ✓ Open-file backup
- ✓ Centralized and continuous
- ✓ Distributed intranet servers
- ✓ Web Servers in IP Balanced Server Farm
- ✓ One to many to many fan out
- ✓ Hundreds to Thousands of servers
- ✓ Mirror "live" data to new OS version, server or storage hardware
- ✓ Consolidation or Relocation
- ✓ Fast Failover / Switchover
- ✓ Test changes on target server
- ✓ Software upgrades
- ✓ Hardware upgrades
- ✓ Year 2000 conversions

Solution Components:

- ✓ Double -Take license for each machine acting as either a source or target.
- ✓ IP load balancing hardware or software with supported web server.

For more information on NSI Software's products, please contact NSI.

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