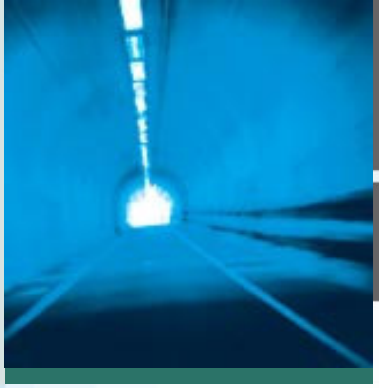

Case Study

Lehman Brothers

Microsoft Windows 2000 Deployment

THE HENSON GROUP

Lehman Brothers

Project Vitals

Industry: *Financial Services*

Customer Profile: *Lehman Brothers, an innovator in global finance, serves the financial needs of corporations, governments and municipalities, institutional clients, and high net worth individuals worldwide. Founded in 1850, Lehman Brothers maintains leadership positions in equity and fixed income sales, trading and research, investment banking, private investment management, asset management and private equity. The Firm is headquartered in New York, with regional headquarters in London and Tokyo, and operates in a network of offices around the world.*

Business Situation: *Lehman Brothers needed a computing platform that offered enhanced security, easy and reliable software distribution, and improved performance for applications and boot time on computers within Lehman Brothers' environment.*

Solution: *THG architected the server migration from Windows NT 4.0 to Windows 2000. This included the architecture of Active Directory service infrastructure, integrated security, and virtual private networking (VPN) capabilities in Windows 2000 Server.*

SOLUTION OVERVIEW

The Henson Group, Inc. (THG) *implemented a custom solution leveraging the computing power of Windows 2000 and Windows XP Professional at Lehman Brothers to substantially increase security and system reliability.*

BUSINESS SITUATION

Lehman Brothers needed a computing platform that offered enhanced security, easy and reliable software distribution, and improved performance for applications and boot time on computers within Lehman Brothers' environment.

To address these challenges, Lehman Brothers contracted The Henson Group, Inc. (THG) deployed Windows XP Professional, Windows 2000 Server, and Windows 2000 Advanced Server to the investment bank and capital markets divisions.

SOLUTION

THG architected the server migration from Windows NT 4.0 to Windows 2000. This included the architecture of Active Directory service infrastructure, integrated security, and virtual private networking (VPN) capabilities in Windows 2000 Server. The process for migrating domains involved THG designing the Windows 2000 domains, planning and executing the migration of Windows NT domains to Windows 2000 native domains (including configuration to take optimum advantage of new features of Windows 2000 Server), and the restructure of the Windows 2000 domains.

Extensive testing was conducted to ensure all strategic applications are compatible with Windows 2000. THG also performed the interoperability configurations to ensure legacy applications were highly functional for users.

THG also instituted a recovery plan for Lehman Brothers to prevent accidental data loss during the upgrade that detailed how to back up domain controllers, applications, and other data.

In managing the transition to the Windows 2000 forest, THG effective defined the forest namespace properly to avoid the need to restructure the forest to correct the namespace; created the root domain of the forest carefully as after the root domain is created, it cannot be changed; created child domains carefully, as if you join a child domain to the wrong part of the forest, you will have to perform a restructure that was not part of the plan, and set up policies, such as those concerning the use of groups and Access Control Lists (ACLs), that do not obstruct future plans.

RESULTS

THG was successful in achieving Lehman Brothers' objectives of implementing a computing platform that offered enhanced security, easy and reliable software distribution, and improved performance for applications and boot time on the client's computers. THG structured the deployment into three separate development and implementation efforts:

Operating System Upgrade

Migration to the Microsoft Windows XP operating system from the current Windows NT 4.0 environment. The benefits of this upgrade made deployment of a user environment that can support the Active Directory technology, as well as significant improvements to user security and authentication.

Microsoft GOLD CERTIFIED Partner

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Domain Directory Upgrade

Migrated user authentication accounts to the Microsoft Active Directory from the existing Microsoft NT Domain environment. The advantages of Active Directory are its capabilities to consolidate all of the disparate repositories for user and application information into a single place.

Software Distribution Upgrade

Involved modernizing and upgrading the system that distributes software updates to user desktops. This upgrade will seek to improve the performance/cost ratio of delivering this service to the user application environment.

THG was also instrumental in developing and deploying Kerberos and Public Key Infrastructure (PKI), along with IP Security (IPSec), enabling Lehman Brothers to increase network and application security.

To improve Lehman's software distribution process, THG implemented IntelliMirror management technologies, including Group Policy, enabling Lehman Brothers to more efficiently manage policies regarding users and resources.

The system administrator can assign access to specific applications, servers, and other network resources to certain users and groups and can delegate specific administration functions to users.

This now helps reduce administrative costs and increase the efficiency of system administrators. Roaming profiles enable users to access the resources they need from any desktop or laptop computer, which allows them to be more mobile and flexible in terms of where they work.

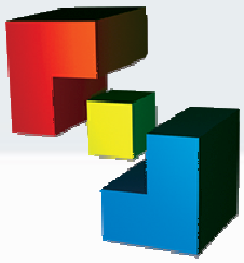
To speed up boot time performance, THG remotely updated all computer BIOS. In addition, Microsoft improved the kernel in Windows XP so that XP will continue to read system files from the disk while previously loaded drivers are being initialized.

In addition, XP also reorganizes system files on the disk, so they are grouped together and can be read off of the disk in large groups. These product improvements drastically reduced computer boot time.

Improved performance of applications was achieved by THG testing all applications for compatibility and use on Windows XP.

As a result, THG also identified several applications that needed to be enhanced to take advantage of improvements in XP. Windows XP also increases the speed of applications by allowing the kernel to read ahead and pull application executables and DLLs off of the disk, while other parts of the application are still being initialized by the CPU.

Having these two activities go on at the same time, instead of one-after-the-other, means a shorter wait until the application is ready for the user. And, XP uses the same file reorganization techniques mentioned above to group application files together on the user's disk, so that applications can launch faster.



About The Henson Group

THG is a Microsoft Gold Certified Partner focusing on the deployment of Microsoft technologies for U.S. and international companies across 20 industry categories.

Founded by former Microsoft employees from the development groups in Redmond and Microsoft Consulting Services, THG offers clients direct access to Microsoft's product groups and technical information often not publicly available.

THG's competencies include .NET application development, infrastructure deployments, Line-Of-Business solutions, security, product training, and strategic consulting.

Delivering projects in a fraction of the time it takes competitors, THG's proprietary project management process and attention to detail consistently produces a 98% client-retention rate.

Everywhere clients need THG to be, the consultancy has operations, engineers, and partners located in countries around the world that are committed to the highest level of client satisfaction.

To learn more about THG, please visit www.HensonGroup.com.

For more information on how THG can deploy this type of solution in your environment, please call 800.980.1130 or e-mail Info@HensonGroup.com.