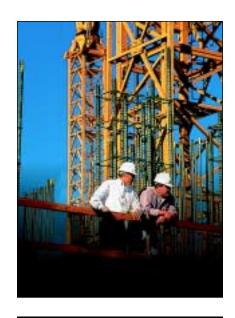


IBM helps Perini Building Company cement a competitive advantage



Overview

■ The Challenge

Replace generic clone servers with a stable, flexible hardware platform that will increase system uptime

■ The Solution

IBM @server xSeries 220 servers running Novell NetWare®, Novell GroupWise® and Novell BorderManager®

■ The Benefit

Improved productivity to drive new business

A solid foundation

Perini Building Company (PBC)—one of three operating units of the Perini Corporation—has been in the construction business for more than 100 years. By consistently capitalizing on new technology, the company has gained a solid reputation for building quality hotels, casinos and other large-scale projects. "Unlike much of the construction industry—which is typically slow to embrace new technology—we're close to the cutting edge," says Chris Payne, manager of information technology (IT) at PBC.

Although the company was using a robust software package, Payne realized that reliability problems related to PBC's group of approximately 30 clone servers were preventing the company from using the software to its full potential. Unplanned downtime significantly affected PBC's Phoenix headquarters and had even more negative effects at its remote sites.

Using the best materials

PBC chose to consolidate its hard-ware systems onto IBM @server xSeries 220 servers featuring extended memory capacity ranging from 384MB to more than 700MB.

At its Phoenix headquarters, PBC is using an IBM EXP300 Storage Expansion Unit that simplifies the addition and management of external hard disk storage. The EXP300 has the capacity to handle 14 hard drives and offers redundant power supplies for system reliability.

For added stability and reliability, PBC uses IBM redundant array of independent disks (RAID) 5E, an IBM enhancement of RAID 5 that provides a performance improvement for smaller arrays. ServeRAID™-4L and ServeRAID-4M controllers provide powerful RAID management. "Although I don't expect any problems with the IBM drives, two of them could fail and our operations would proceed as though nothing had happened," says Payne. "You can simply plug in new drives and the system rebuilds itself."



Novell Net Services software—including NetWare, GroupWise and BorderManager—is also running on the x220 servers. The NetWare operating system and GroupWise messaging system combine to enable PBC's mobile employees to remotely access their e-mail, calendars, address book and other productivity applications. BorderManager protects sensitive data and manages user access to Internet content.

Built for results

The high availability of the x220 servers has helped PBC get the most out of the Novell technology—and capitalize on new business opportunities. PBC's preconstruction department, which evaluates new projects, was feeling the effects of system downtime and limited memory capacity. The increased system stability allows the department to consistently meet tight deadlines, and the expanded data storage gives it the ability to handle memory-sapping images of blueprints and other drawings.

PBC has also been able to restart stalled IT projects. "There were several projects that promised to give us a competitive advantage once they were implemented, but we weren't able to work on them because we were spending so much time on the servers," says Payne. "Since we installed the x220 servers, we've been able to pick up the pace considerably.

"Perini Building Company employees are hard-working, dedicated professionals who deserve the best technology. I firmly believe that with the combination of IBM and Novell, we have taken a big step towards providing that."

—Chris Payne, manager of information technology, Perini Building Company

For more information

To learn more about this solution, visit the following Web sites:

ibm.com/eserver/xseries

www.perini.com



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