



KEY HIGHLIGHTS

INDUSTRY: TECHNOLOGY

**CHALLENGE**

Genilogix wanted to create a flexible infrastructure to avoid upfront costs, improve disaster recovery options, reduce maintenance windows, and allow for staging of test environments.

SOLUTION

Genilogix bases its full range of products and services on VMware® virtualization technology.

VMWARE AT WORK

- VMware Infrastructure 3 Enterprise, featuring:
 - ESX Server 3 with VMFS
 - VirtualCenter
 - VMotion™
 - High Availability (HA)
 - Consolidated Backup
- VMware Lab Manager

DEPLOYMENT ENVIRONMENT

[include operating system, application software, and hardware (server make and model)]

- ESX Server and VirtualCenter on HP ProLiant DL 380 and Dell PowerEdge 1950
- Guest operating systems: Windows Server 2003 R2 (32-bit and 64-bit) and Red Hat Enterprise Linux 4
- Applications: Mercury Quality Center 9, Microsoft Exchange Server 2007, Microsoft SQL Server 2005, Microsoft SharePoint Server 2007, Microsoft Windows Terminal Services, Oracle 10G R2 and SAP NetWeaver 6.0

“Unlike virtual software from other vendors, VMware ESX Server installs directly on the bare metal of the server, so it isn’t vulnerable to any instabilities of the operating system. It gives us excellent performance—up to 22 percent better response time.”

Nate Stuyvesant

Chief Technology Officer and Senior Partner, Genilogix

Genilogix

Genilogix helps Fortune 100 companies optimize quality, performance and availability from their business applications. Its customers are drawn from highly regulated industries such as pharmaceuticals and biotech, financial services and manufacturing. The company uses VMware Infrastructure 3 (VI3) products to create entirely virtualized IT environments that eliminate server sprawl, provide optimum server availability and deliver excellent disaster recovery.

“VMotion with High Availability is incredibly beneficial,” says Stuyvesant. “If a server goes down, a virtual machine that’s running with connected users can be moved automatically to another box without administrator involvement. The users don’t even realize it, so their application availability goes up dramatically.”

With VMware Consolidated Backup, Genilogix can back up any time without a performance hit. “Some backup programs can take CPU utilization up to 90 percent. With Consolidated Backup, there is no impact to users working on virtual machines,” says Stuyvesant.

“VMware Lab Manager—which allows us to create virtual machines in different states for staging and testing purposes—will change the way quality assurance environments will be managed in the future,” says Stuyvesant.

Results

- Achieved 15:1 server consolidation ratios for a multibillion-dollar global electronics company
- Reduced server deployment time by 66 percent
- Avoided “server sprawl”
- Eliminated high up-front and long-term hardware costs
- Empowered development team by giving it control of its test environment
- Eliminated server maintenance windows by using VMotion
- Reduced application development time by 18 percent
- Enabled anytime backup without performance degradation
- Reduced power and cooling costs by two-thirds over nonvirtualized servers