



KEY HIGHLIGHTS

INDUSTRY: TECHNOLOGY

**CHALLENGE**

Enable server consolidation and ease of management for application development projects undertaken on behalf of clients.

SOLUTION

VMware virtualization has enabled Mastek to allocate computing resources more quickly and efficiently, while lowering power and cooling costs, minimizing administration loads and improving project development lifecycles.

VMWARE AT WORK

- VMware Infrastructure 3, featuring ESX 3, VMotion
- VMware vCenter Server

DEPLOYMENT ENVIRONMENT

- ESX on Dell PowerEdge 6850 servers with two Intel Xeon processors running at 2.66GHz and 12GB RAM
- ESX on Dell PowerEdge 2950 servers with two Intel Xeon processors running at 2.66GHz and 12GB RAM
- ESX on HP DL380 G3 with Intel Xeon processors running at 2.66GHz and 12GB RAM
- Guest operating systems: Microsoft Windows 2000, Microsoft Windows 2003, Red Hat Enterprise Linux
- Virtualized production applications: Cisco CallManager, Oracle Applications, Oracle Database, Microsoft Visual SourceSafe, antivirus server, DNS server

“Implementing VMware has enabled us to complete application development projects for clients faster, more efficiently and with improved results, while we expect also to achieve considerable benefits in the delivery of our own internal applications.”

Ashish Junnarkar, Assistant Manager, Technology Infrastructure Services
Mastek

Mastek Ltd

Headquartered in Mumbai, India, Mastek provides software and integration services to international clients. These services include application development, application management outsourcing, systems rationalization, legacy system modernization and migration, systems integration, business frameworks and business process outsourcing.

The organization runs a central datacenter in Mumbai, with a second datacenter in Pune and a small network room in Chennai. Other facilities support branch offices in the United States and United Kingdom. “We initially deployed VMware to enable us to achieve server consolidation and ease of management for two application development projects for clients,” said Ashish Junnarkar, Assistant Manager, Technology Infrastructure Services, Mastek. “To achieve this, we implemented 80 virtual machines on six host servers in early 2008.”

With the assistance of VMware Enterprise Partner Avnet Technology Solutions, the entire infrastructure was implemented in two weeks – two weeks less than Mastek anticipated.

Mastek then deployed a VMware-based virtualized infrastructure comprising 20 virtual machines on two physical hosts to further support its application development business. “We’ve now started implementing VMware in our production environment,” said Junnarkar. “The performance and reliability of our virtualized infrastructure is such that we would love to virtualize 100 percent of our 300-strong server fleet.” The VMware deployment has also enabled Mastek to retire its oldest servers, with about 75 ageing machines decommissioned as of May 2009.

Results

- Avoided investment of US\$200,000 on about 60 new physical servers while decommissioning about 75 ageing machines
- Required only two administrators to run the infrastructure
- Reduced power and cooling costs significantly
- Cut server deployment times from three to four weeks to 20 minutes
- Improved troubleshooting and debugging capabilities
- Reduced datacenter floor space
- Consolidated and reduced network ports and cabling

