



KEY HIGHLIGHTS

INDUSTRY: FOOD AND BEVERAGE

**CHALLENGE**

Improve system reliability and availability while constraining server sprawl

SOLUTION

Deploy a highly redundant, dynamic and scalable virtualized environment based on VMware technologies

VMWARE VIRTUAL INFRASTRUCTURE AT WORK

VMware Infrastructure 3 Enterprise, featuring:

- ESX Server 3.0.1
- High Availability (HA)
- VMotion
- Distributed Resource Scheduler
- P2V

DEPLOYMENT ENVIRONMENT

- ESX Server running on three Thunder K8QW S4881 servers each with eight dual-core AMD Opteron processors and 32GB RAM
- Hitachi Data Systems AMS200 modular storage
- Guest operating systems: Microsoft Windows 2003, SuSE Linux, Novell NetWare, Red Hat Enterprise Linux
- Applications running in virtual machines include: Microsoft Terminal Server 2003, Microsoft SQL Server, Microsoft Exchange Server 2007, MySQL, PHP, Apache, customized applications to capture factory data

“VMware has proven to be fantastic. It delivers a reliable, cost-effective infrastructure that enables us to operate for 24 hours a day, seven days of the week, 365 days of the year.”

Vishvas Chitale
Director, Chitale Dairy

Chitale Dairy

Established in 1939, Chitale Dairy produces about 400,000 liters of milk per day and manufactures products such as cream, butter and yoghurt. With about 500 employees, Chitale Dairy is based in the state of Maharashtra, southwestern India.

With the business operating 10 physical servers across two data centers in a town 500 kilometers from the nearest large city, Chitale Dairy found it expensive and hard to source qualified IT support staff. This posed a significant risk to its operations.

In 2005, Chitale Dairy began evaluating ways of streamlining and enhancing its technology environment. The business decided to implement VMware server virtualization to provide the required availability and disaster-recovery capabilities. “We determined that if a server became corrupted, we would need six or seven hours to fully restore it,” said Vishvas Chitale, Director, Chitale Dairy. “Using VMware High Availability (HA), we could reduce this to just 10 minutes.”

In June 2007, Chitale Dairy consolidated its environment to three physical servers operating in one data center. These host 20 virtual servers running multiple production applications and operating systems, including 64-bit Microsoft Exchange Server 2007.

“Our environment is highly scalable,” said Chitale. “We can easily support another 20 virtual servers on our existing hardware to service our growth of 15 percent year-on-year and expansion into new lines of business.” Chitale Dairy is also evaluating VMware Desktop Infrastructure (VDI) for deployment.

Results

- Reduced server hardware acquisition costs by 50%
- Cut software acquisition costs by 75%
- Reduced server deployment times from three weeks to three hours
- Gained the ability to restore a corrupted server in 10 minutes rather than six to seven hours
- Eliminated second data center, with consequent 50% reduction in power, cooling and real estate, by consolidating from 10 physical servers to three
- Reduced storage costs by 25%
- Gained the ability to seamlessly migrate virtual environment to new physical node
- Delivered flexibility by supporting a range of storage options

VMware, Inc. 3145 Porter Drive Palo Alto CA 94304 USA Tel 650-475-5000 Fax 650-475-5001

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