

Cybage

PROFILE

Industry

IT Services

Corporate Headquarters

Pune

Employees

3,800+

Website

www.cybage.com

DEPLOYMENT ENVIRONMENT

VMware Products

VMware ESX 4.1 Enterprise

Applications

Microsoft Exchange 2010
Microsoft Sharepoint 2010
Domain Controllers
File Servers
VSS Servers

Partner

MIEL

Platform

IBM 3850 X5 Series servers
NetApp Storage

RESULTS

- Server/desktop consolidation ratio of 213:1
- Significant savings in Capital and Operating Expenditures
- Provisioning of servers down from 10 days to 30 minutes
- Zero unplanned downtime after implementing VMware
- CPU Utilization improved from 20% to 80%

NEXT STEPS

- Cybage now plans to migrate all of the development and testing environment to the virtual infrastructure

Cybage mitigates server sprawl, cuts IT costs and implements a robust disaster recovery strategy

"The most important thing we've achieved through VMware is peace of mind. I don't have to worry about provisioning new servers or making space for them in our datacenter, or worry about downtime when patching or upgrading servers."

— Rudolf Britto, Associate Manager - Systems

Objectives:

- Move to centralized strategy for storage and servers to mitigate server sprawl. 5 mail and 40 application and lab servers were distributed in branch offices.
- Reduce server provisioning time. It would take a minimum of 2 weeks to provision and install a new server.
- Optimize utilization of space in the datacenter. Provisioning new physical servers resulted in filling available server racks to capacity and left little room for expansion.
- Reduce power and cooling to reduce minimize operating expenses.
- Implement a robust data protection and disaster recovery strategy.

VMware Solution:

- Cybage deployed a virtualized infrastructure in January 2011 leveraging VMware ESX running on IBM servers with NetApp FC SAN storage.
- Virtual servers host applications such as Microsoft Exchange 2010, Microsoft SharePoint 2010, domain controllers, VSS servers, file servers and the entire Development and Testing Lab environment for Cybage. Additionally, 170+ virtual machines were hosted on two IBM 3850 X5 series rack servers running VMware ESX 4.1 in the test lab of a major QA project, allowing for accommodating new project requirements without further investment.
- The lab environment has been migrated to two IBM 3850 X5 series rack servers running VMware ESX that host 200+ virtual desktops each.
- VMware and NetApp storage provide robust data protection and DR allowing for point in time recovery through snapshots and single mailbox recovery.
- Server CPU utilization has improved dramatically, from as low as 20% to 80% after VMware.

Evaluation Criteria and Processes:

- Cybage conducted a POC for the lab environment using VMware with the assistance of the VMware partner.
- VMware ESX 4.1 was tested on an IBM blade server for one month where multiple Virtual Machines were provisioned, cloned and tested for performance.
- VMware vMotion feature was also evaluated because of its ability to migrate live virtual machines with no downtime. Exhaustive testing was also conducted to determine the ease of manageability of a virtual infrastructure.

