



KEY HIGHLIGHTS

INDUSTRY: EDUCATION

**CHALLENGE**

Deal with space, power and cooling issues and simplify provisioning and management

SOLUTION

VMware Infrastructure 3 delivers 12:1 server consolidation and high availability of key applications

VMWARE AT WORK

- VMware® Infrastructure 3 Enterprise, featuring:
 - o VMware® ESX Server 3 with VMFS
 - o VMware® VirtualCenter 2
 - o VMware® Virtual SMP
 - o VMware® VMotion™
 - o VMware® Distributed Resource Scheduling (DRS)
 - o VMware® High Availability (HA)

DEPLOYMENT ENVIRONMENT

- ESX Server on 12 Single-core, Quad-CPU HP DL 585
- 2 x NetApp FAS 3020C SAN
- Windows 2000 Server, Windows 2003 Standard and Enterprise, Windows NT 4.0, Windows and SUSE Linux Enterprise Server
- Applications: Active Directory, Payroll Systems, Citrix PS4.5 Farm, Identity Manager, Microsoft ISA Array, Novell Netware Clusters 6.5, Novell Zen Works
- Virtual appliances – Sugar CRM, Leostream Desktop Connection Broker

“The expansion of our data centre was affecting our ability to deliver services promptly and efficiently and we were also becoming concerned about our power and cooling overheads. Virtualisation has helped us drastically reduce our power and cooling requirements while making our overall infrastructure far more efficient.”

Jody Popplewell, Senior Network Administrator
Hull College

Hull College

Hull College is one of the largest colleges in the north of England with around 1,500 members of staff and around 35,000 student registrations each year. As one of the largest providers of Further Education in the region, Hull College recently opened a new £11 million complex and splits its wide range of courses across four centres of excellence.

With a rapidly expanding portfolio of over 250 applications Hull College was beginning to face serious problems caused by its growing server estate. Space, power and cooling issues were becoming major environmental and financial concerns for the college and further physical expansion was not an option.

By moving to VMware virtual infrastructure, Hull College has achieved a server consolidation ratio of 12:1. By decreasing its server footprint to this extent the college has made significant savings on power and cooling costs and has consolidated its main data centre in to one room. Virtualisation has also helped the IT department be far more flexible and responsive in the way it deploys and manages services and the college now has a ‘virtual first’ approach to delivering new applications. Using advanced VMware Infrastructure 3 features such as VMware HA and VMotion, Hull has also built an effective and simple platform for business continuity and disaster recovery.

Results

- Consolidated data centre into one room
- Power and cooling costs reduced by over 50%
- CO2 emissions reduced by over 1,500 tonnes per year
- Achieved server consolidation ratio of 12:1