

Virtualization with VMware on x86 platform

About DS Group

Dharampal Satyapal Group (DS Group) is Rs.1850 crore rapidly growing multi-diversified conglomerate that has a strong presence in sectors such as F&B, Hospitality, Mouth Fresheners, Tobacco, Packaging, Agro forestry Rubber Thread and infrastructure. The Group has recently ventured into infrastructure with Steel, Cement and Power. Founded in year 1929, DS Group is committed towards premium quality products & credited with several innovations over last eight decades. The product portfolio of DS Group has evolved magnificently over the years and its undeterred pursuit for '**Quality & Innovation**' has given impetus to the consumer satisfaction and loyalty. From an assorted range of F&B products, to idyllic hospitality ventures; from splendid manufacturing units of Flexi Packaging to sprawling Plants for Rubber Thread production; the legacy of DS Group has indeed come full circle with the success of all its diverse endeavors.

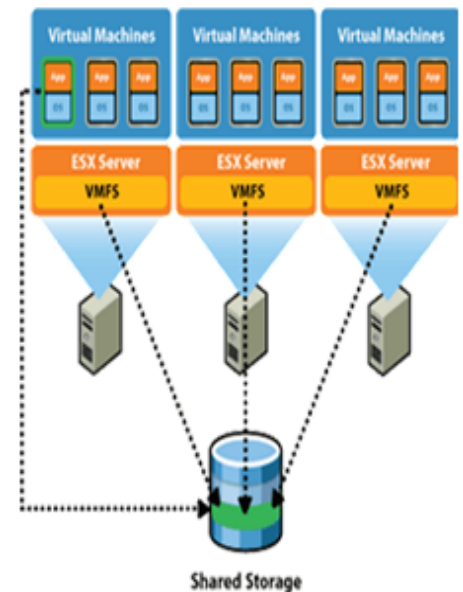
Summary of the project:

Prior to 2010, DS Group operated 18 Rack & tower servers distributed across several locations to support eight large sites and 34 smaller sites throughout the country.

These servers were expensive to power and the company's IT team had to travel extensively to ensure each machine was updated, patched or fixed as the need arose. In addition, this physical infrastructure was not scalable enough to meet longer-term business objectives and consumed valuable real estate. The business also required extensive bandwidth to meet its data replication requirements. In 2010, DS Group opted to deploy virtualization to resolve these issues, prompted largely by an evaluation of new HP G7 servers.

By selecting HP's 3-Rack server, the company gave itself the scalability to support future growth. It then turned to HP to deploy into its primary datacenter a virtualized infrastructure based on VMware vSphere 4™ linked by iSCSI storage area network.

The Targus project encompassed delivery of the hardware, licenses, migration and support. The organization is now running 20 virtual machines on 3 G7 Rack Servers. This infrastructure is running a 550-user Microsoft Exchange Server email system, a 250-user Microsoft Office SharePoint Server collaboration system and two business applications—a distributor claims management system and a secondary sales system—that access data from a Microsoft SQL Server database.



- ESXi on HP DL380G7 servers with dual Hexa-core 2.66 GHz Intel Xeon processors and 32 GB RAM
- HP P2000 FC/iSCSI Combo storage with 10 TB on SAS HDD useable capacity.



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Case Studies



Challenge:

Build a cost-effective, dynamic infrastructure to replace distributed physical servers that were expensive and inefficient to manage, consumed large amounts of power, and lacked the scalability to meet long term goals.

Solution offered by Targus

Software: VMware at work

VMware vSphere 4.1, featuring:

- ESXi 4.1
- VMotion
- Distributed Resource Scheduler (DRS)
- High Availability (HA)
- VMware Consolidated Backup
- VMware vCenter Server

Hardware: Deployment environment:

- ESXi on HP DL380G7 servers with Dual Hexa-core 2.66 GHz Intel Xeon processors and 32 GB RAM
- HP P2000 FC/ISCSI Combo storage with 10 TB on SAS HDD useable capacity.
- Guest operating systems: Microsoft Windows Server 2008 R2, Windows 2008 & Windows 2003 R2 SP2 & RHEL 5
- Virtualized production applications
- Microsoft Exchange Server 2007,
- Microsoft SQL Server, distributor claims management system, sales system
- Web Sense
- HP Data Protector

Services

Targus Implementation Services:

Implementation of Microsoft Exchange Server 2007, Microsoft SQL Server, and distributor claims management system, sales system & Web Sense on Virtual Environment.

Results

- Reduced power & cooling costs by 67% each year
- Cut net server procurement costs by 46%
- Achieved a server consolidation ratio of 6:1
- Increased hardware resource utilization to 70 %



With Targus
There is, always a solution