



Virtualized Servers in the Data Center

How Cisco **IT** Virtualizes Data Center Application Servers



A Cisco on Cisco Case Study: Inside Cisco IT

Overview

- Challenge

Address 15% server growth rate while reducing costs, data center resource demands, and deployment time

- Solution

Deploy virtualized servers using VMware Infrastructure 3 and Cisco technologies

- Results

US\$10 million cost savings and cost avoidance, reduced data center demands, and faster server deployment

- Next Steps

Migrate to a consolidated North America data center and deploy new virtualized data center provisioning solutions

Challenge

Too Many Servers

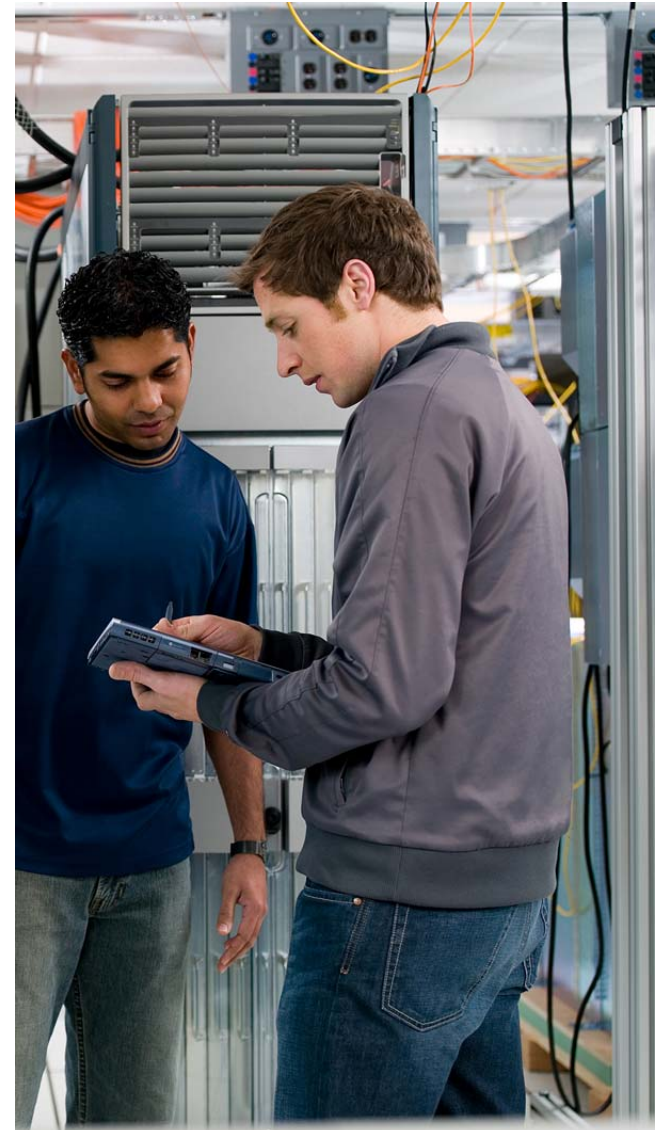
- 11,000 servers running 4,000 applications in early 2007
- 15% annual server growth rate
- Lack of data center space
- US\$7,000 cost for deploying a physical server
- High demand for power and air conditioning
- 12 weeks or longer to deploy new servers



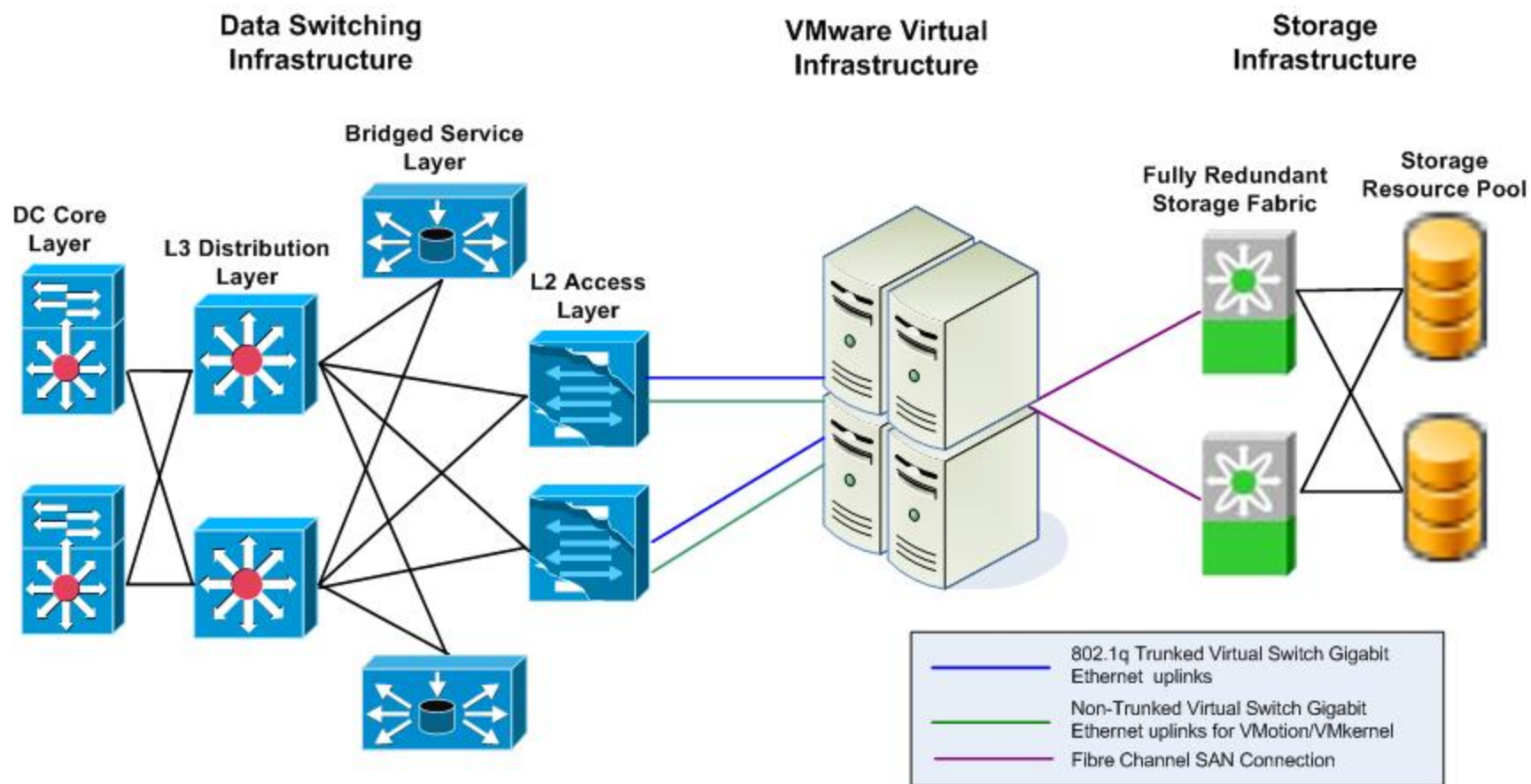
Solution

Deploy Virtualized Servers

- Create virtualized servers using VMware Infrastructure 3
- Support virtualized servers with Cisco technologies for routing, switching, load balancing, content switching, and storage-area networks
- Produce server farms for load balancing and redundancy
- Virtualized servers are a key element of the Cisco IT Service-Oriented Data Center (SODC)



Solution



Results

Reduced Costs and Deployment Time

- US\$10 million cumulative cost savings and cost avoidance
- Reduced demand for data center space and resources
- Faster server deployment
- Increased productivity of IT staff
- Improved application stability
- 1500+ virtualized servers deployed in early 2007



Next Steps

New Data Center, More Virtualized Servers

- Migrate deployment of virtualized servers to the new, consolidated North America Cisco data center
- Deploy new virtualized data center software solutions for enhanced management and provisioning
- Achieve goal of virtualizing 50% of existing servers and 75% of new servers

To read the entire case study, or for additional Cisco IT case studies on a variety of business solutions, visit Cisco on Cisco: Inside Cisco IT

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