



Cisco Unified Data Center



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Emerging trends....

Great Benefits...but also New Challenges



New Paradigm

- Virtual Machine is the New “Atomic Unit”
- Dynamic Movement of VMs / Applications
- New Options: VDI, Clouds, Workload Portability

Infrastructure

- Per-Virtual Machine services required
- Multi-Core CPU’s, More Networked Storage
- Increased emphasis on Security, Trust, QoS

Organization

- Breaks Current Operational Model
- Reduced Visibility into ‘Hidden’ Resources
- Requires Continuous Availability/Provisioning

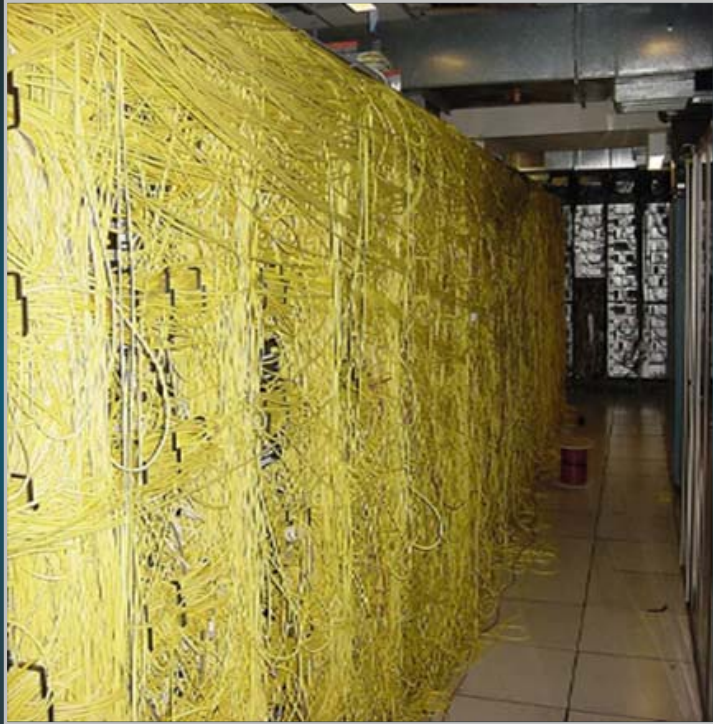
Cisco Unified Data Center



- Universal Connectivity
- Virtualized & Virtualization-aware
- Assumptive availability
- Integrated IT & Business Processes
- Integrated, Adaptive Security

Virtual Interconnect: Unified Fabric

Reducing complexity, Foundation for VM Mobility



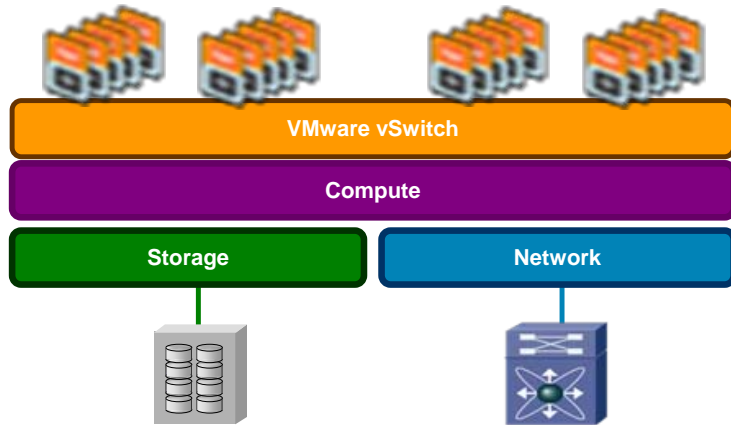
Complexity, Cost, Power



Efficient, Simpler Operations

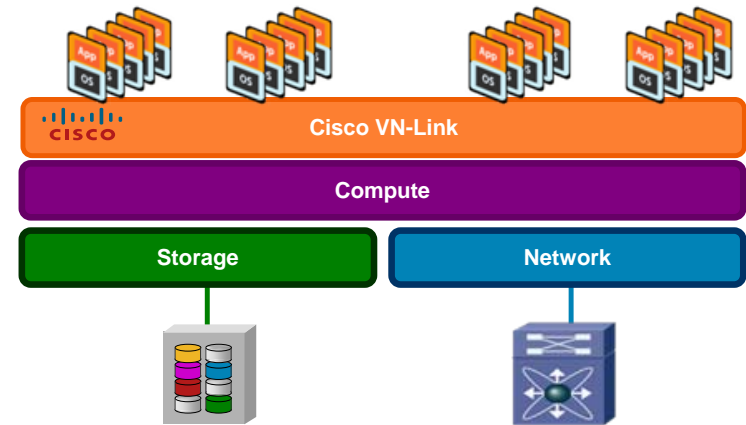
Cisco VM-aware Networking

Enable, Simplify, Scale



- Lack of per-VM visibility, accountability and consistency
- Policy applied at physical server
- Inefficient management model

Policy-Based
VM Connectivity



- Per-VM visibility, accountability and consistency
- Policy applied per-VM
- Simplified management model

Mobility of Network
& Security Properties

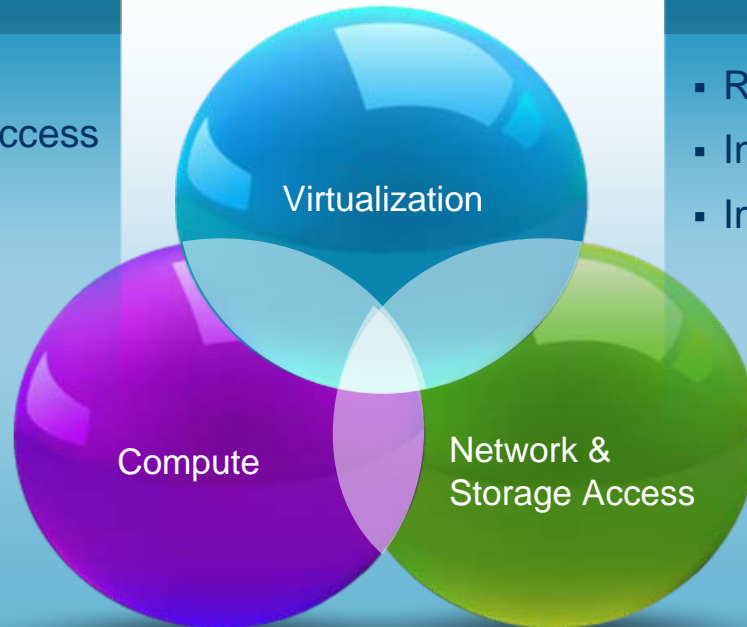
Non-Disruptive
Operational Model

Unified Computing

Unleashing the Full Potential of the Data Center

Solution

- Cohesive system that unites compute, network, storage access and virtualization
- Management simplification



Benefits

- Reduced TCO
- Increased business agility
- Improved energy efficiency

Business Return on Investment

Cisco IT Experience From Adopting Unified Data Center

Storage

- \$70+ million cost avoidance over 4 years
- TCO: \$0.21/MB → \$0.01/MB
- Managed storage: 25 TB to 600 TB per FTE
- Overall utilization: 20% → 68%



Server

- \$20+ Million cost avoidance
- 50% existing, 75% new servers virtualized
- Deployment: 8 weeks → 3 days



Unified Fabric

- 66% Reduction in Cabling: \$2M savings
- 30% more Compute capacity: \$50M savings



Cisco Unified Data Center Delivers ...



Increased IT Efficiency
Greater Business Productivity

Increased IT Responsiveness
Greater Business Agility

Increased IT Resilience
Greater Business Continuity



For more information visit:
www.cisco.com/go/vmworld09





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