Cisco Unified Data Center and EMC VSPEX Server Virtualization Solutions for Midsized Companies

ESSENTIALS
Challenge Deliver a complete and modular virtualization solution that is prevalidated.
Solution The EMC VSPEX platform accelerates your organization's journey through the phases of virtualization with solutions that are designed to scale as your business grows.
High Performance Implement a combined computing, networking, security, virtualization, and management solution in a framework that delivers outstanding performance for physical and virtualized business applications.
Scalable The Cisco® Unified Data Center is a complete data center solution that combines computing, networking, security, virtualization, and management solutions in a scalable framework that delivers outstanding performance for physical and virtualized business applications.
Agile Significantly reduces infrastructure capital expenditures (CapEx) and operating expenses (OpEx) with a solution that can be deployed nearly 90 percent more quickly than traditional server platforms.

The Challenge: Accelerate the Virtualization Journey

The path to complete IT virtualization with cloud computing capabilities has three distinct phases, each with its own separate challenges. Phase 1 is characterized by the challenge of identifying a server virtualization solution that will reduce costs and operating expenses. Phase 2 focuses on the virtualization of mission-critical applications, and the main challenges in this phase are helping ensure application availability and improving compliance with service-level agreements (SLAs). In Phase 3 the challenge is to deliver business agility through increased emphasis on end-to-end automation and delivery of IT as a service (ITaaS). Each of these phases can be an obstacle that prevents businesses from advancing toward a virtualization solution.

The Solution: Proven Infrastructure

As customers contemplate the transformation of IT, they realize that they need a complete and modular virtualization solution that is prevalidated. The EMC VSPEX platform provides such a solution. EMC VSPEX can accelerate your organization's journey through the phases of virtualization with solutions that are designed to scale as your business grows. Designed to provide a simple, efficient, and flexible infrastructure, EMC VSPEX solutions come in a variety of modular configurations to meet the needs of your business no matter whether you have just started or are already on your way toward virtualization of your infrastructure. EMC VSPEX solutions offer architecture choices and enable faster deployment, greater efficiency, and lower risk.

High Performance

The Cisco® Unified Data Center is a complete data center solution that combines computing, networking, security, virtualization, and management resources in a framework that delivers outstanding performance for physical and virtualized business applications. It is uniquely capable of providing the kind of simplicity, performance, and security that IT departments demand as they transition from physical to virtual and then to cloud environments.

Scalable

The Cisco Unified Computing System™ (Cisco UCS®)" integrating computing, networking, and storage resources to provide a unified data center, is a complete data center solution that combines computing, networking, security, virtualization, and management solutions in a framework that delivers outstanding performance for physical and virtualized business applications. "Cisco UCS" has been shown to reduce infrastructure capital expenditures (CapEx) by 20 to 40 percent and operating expenses (OpEx) by up to 40 percent and can be deployed more quickly than traditional server platforms.

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Agile Infrastructure

Cisco Unified Fabric, the industry's highest-density network fabric for data center business applications, delivers end-to-end network fabric at half the cost of competitive systems and with twice the scalability of any competitive alternative.

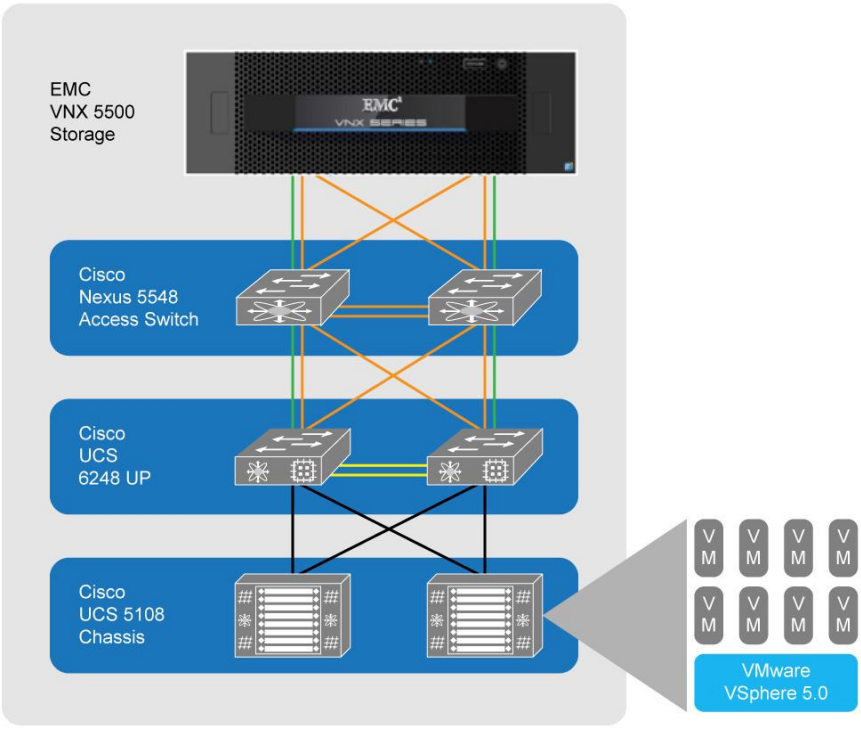
Cisco Unified Management, a framework of award-winning solutions for IT service creation and self-service capabilities, enables IT to operate more efficiently and to more quickly offer new services to the business. Cisco solutions manage and simplify the deployment and operation of networking, computing, and applications and cloud services in the data center, and they support open, third-party integration with Cisco's ecosystem of storage, virtualization, application, and management solution partners.

VSPEX Offerings from Cisco and EMC

Cisco and EMC are offering VSPEX solutions built on the Cisco Unified Data Center infrastructure architecture. In combination with EMC storage solutions, these reference configurations enable flexible solutions that can easily be scaled, optimized for a variety of application workloads, configured for virtual desktop applications, and optimized for mixed application workloads and cloud environments.

EMC VSPEX with Cisco Unified Data Center is a validated configuration that delivers a virtualized data center in a rack composed of leading computing, networking, storage, and infrastructure software components on a choice of hypervisors through joint partners Cisco and EMC (Figure 1).

Figure 1: Sample VSPEX Solution



For More Information

http://www.cisco.com/go/emc

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