



VMware vSphere 4 and Cisco Nexus 1000V Series: Accelerate Data Center Virtualization



Executive Summary

VMware for the past decade has been the thought leader in driving virtualization of the data center infrastructure services. The introduction of VMware vSphere 4 as the industry's first cloud operating system has brought to fruition the vision of data center infrastructure virtualization. Cisco has a long history as an innovator in networking and data center infrastructure and promotes this same vision with the introduction of the Cisco Nexus™ 1000V Series Switches for the VMware vSphere 4 platform. The two companies view data center virtualization as an effective strategy for helping customers reduce data center total cost of ownership (TCO), increase IT's responsiveness to the needs of the business, and implement a platform for innovative solutions to business problems. This shared vision has served as the foundation for a number of joint research and development efforts to deliver solutions that benefit both Cisco and VMware customers. The Cisco Nexus 1000V Series distributed virtual switch and its tight integration into VMware vSphere 4 is the first solution delivered as a result of this collaboration.

VMware vSphere 4 and Cisco Nexus 1000V Series Solution

VMware vSphere 4 transforms data centers into dramatically simplified cloud infrastructure and enables the delivery of the next generation of flexible and reliable IT services, using internal and external resources, securely and safely. Proven through use by more than 130,000 customers, VMware vSphere drastically reduces capital and operating costs and increases IT control over delivery of service levels while preserving the flexibility to choose between any type of OS, application, and hardware hosted in-house or using external resources.

The cloud operating system virtualizes traditional siloed data center compute, storage, and network resources into modules: VMware vCompute, vStorage, and vNetwork as shown in Figure 1. This modularity creates the flexibility and scalability needed to provide a robust and highly available infrastructure layer. This modularity also allows customers to quickly and easily take advantage of solutions from other vendors.

For more information, visit: www.vmware.com



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