

## VMware vSphere: What's New

Course Code: VMVS4WN Two days; Instructor-Led

### Overview

This hands-on training course explores new features in VMware® vCenter™ Server 4 and ESX™/ESXi 4, as well as how to upgrade to VMware vSphere™ 4.

### Prerequisites Recommended

Completion of VMware Infrastructure 3: Install and Configure, or equivalent experience with VMware ESX and vCenter Server.

### Target Audience

System architects, system administrators, IT managers, and individuals responsible for implementing and managing VMware Infrastructure architectures.

### Course Objectives

At the end of the course, you should possess knowledge and skills for the following:

- Upgrading VMware deployments from VMware Infrastructure 3 to vSphere 4
- Deploying distributed virtual switches to simplify datacenter-wide network management
- Using VMDirectPath to assign a PCI adapter directly to a virtual machine
- Migrating virtual machines' storage while they are live with VMware Storage VMotion
- Growing virtual disks and VMware vStorage VMFS volumes while they are live
- Employing VMware's new Pluggable Storage Architecture
- Ensuring application availability with VMware Fault Tolerance
- Manage more than one vCenter Server instance from the same client
- Use the new Host Profiles feature to keep hosts uniformly configured
- Save energy with VMware Distributed Power Management
- Save disk space with thin provisioning
- Administer virtual appliances consisting of more than one virtual machine

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## Course Outline

### **Module 1: Introducing vSphere 4**

Highlights vSphere 4 enhancements by component and reviews upgrade tools and strategies.

### **Module 2: Infrastructure Administration**

Presents new features that support better infrastructure monitoring and reduce the time it takes to provision ESX/ESXi hosts and virtual machines.

### **Module 3: Networking**

Discusses networking enhancements that simplify configuration, extend support, and improve performance.

### **Module 4: Storage**

Introduces new storage features that reduce storage costs, streamline management, and optimize performance.

### **Module 5: Resource Management**

Reviews VMware VMotion™ compatibility enhancements, new VMware Distributed Resource Scheduler monitoring and management tools, and extended VMware DPM support.

### **Module 6: Business Continuity**

Presents VMware High Availability enhancements and introduces VMware Fault Tolerance and vStorage APIs for data recovery.