



# VMware vSphere: What's New

## 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.

## 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

## Target Audience

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

## 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.

## Prerequisites

### Recommended

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

## Pricing and Scope

- Two (2) days of instructor-led classroom training
- 50% lecture and 50% hands-on labs and simulations
- Individual enrollment available at convenient locations worldwide at <http://www.vmware.com/education>
- Contact your VMware representative for pricing information.
- Onsite training is available for companies that prefer the benefits of instructor-led classes without travel.
- Contact VMware Education to discuss facility requirements for onsite training at [education@vmware.com](mailto:education@vmware.com).

VMware warrants that it will perform these workshop services in a reasonable manner using generally accepted industry standards and practices. THE EXPRESS WARRANTY SET FORTH ABOVE IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE SERVICES AND DELIVERABLES PROVIDED BY VMWARE, OR AS TO THE RESULTS WHICH MAY BE OBTAINED THEREFROM, AND VMWARE DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. VMWARE WILL NOT BE LIABLE FOR ANY THIRD-PARTY SERVICES OR PRODUCTS IDENTIFIED OR REFERRED TO BY CUSTOMER BY VMWARE. VMWARE WILL NOT BE LIABLE FOR ANY LOST PROFITS OR BUSINESS OPPORTUNITIES, LOSS OF USE, BUSINESS INTERRUPTION, LOSS OF DATA, OR ANY OTHER INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING UNDER THIS AGREEMENT UNDER ANY THEORY OF LIABILITY, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, PRODUCT LIABILITY OR OTHERWISE, REGARDLESS OF WHETHER VMWARE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. VMWARE'S AGGREGATE LIABILITY UNDER THIS AGREEMENT WILL NOT, IN ANY EVENT, EXCEED THE FEES PAID BY CUSTOMER TO VMWARE UNDER THIS AGREEMENT. All materials provided under this workshop are copyrighted by VMware ("Workshop Materials"). VMware grants the customer of this workshop a license to use and make reasonable internal company copies of any Workshop Materials strictly for the purpose of facilitating such company's understanding, utilization and operation of its licensed VMware product(s). Except as set forth expressly in the sentence above, there is no transfer of any intellectual property rights or any other license granted under the terms of this workshop. If Customer issues a purchase order or other ordering document, the terms and conditions of which are in addition to or inconsistent with the terms and conditions of this Agreement, the terms and conditions of such purchase order or other ordering document will not be binding and will not modify this Agreement.