

# VMware vSphere: What's New

## Delivery Methods

- Instructor-led training
- Live-online training
- Onsite training

## Course Duration

- Two days of instructor-led training
- 60% lecture, 40% hands-on lab

## Target Audience

- System administrators
- IT managers
- System architects
- People responsible for implementing or managing vSphere environments

## Prerequisites

Attendance at one of these VMware vSphere 4 courses:

- Install, Configure, Manage
- Fast Track
- What's New

Or equivalent vSphere 4 administration experience

## Pricing

Contact your VMware® representative or a VMware Authorized Training Center for pricing information.

## More Information

Courses are conveniently scheduled around the world. Go to <http://www.vmware.com/education> to find the class that is right for you.

Onsite training is also available for customers who prefer to bring a VMware Certified Instructor to their own facilities. For more information about onsite classes, including facility requirements, go to <http://www.vmware.com/education>.

## Course Overview

This hands-on training course explores new features in VMware vCenter Server™ 5.0 and VMware ESXi™ 5.0. Topics include VMware vSphere® 5 installation and how to upgrade from vSphere 4.x to vSphere 5.0. vSphere 5.0 is the first version of vSphere to include only the ESXi hypervisor.

Students who complete this course may enroll in any of several advanced vSphere 5.0 courses. Go to <http://www.vmware.com/education> for advanced course options.

## Course Objectives

By the end of the course, you should gain an understanding of the functions and features in vSphere 5.0 and be able to do the following:

- List and describe key enhancements in vSphere 5.0
- Upgrade a deployment from vSphere 4.1 to vSphere 5.0
- Use the vSphere Web Client to manage virtual machines
- List and describe key networking enhancements, including the ESXi firewall and new features in vNetwork distributed switches
- Upgrade and manage a VMware vSphere® VMFS-5 datastore
- Understand and configure policy-driven storage
- Create a datastore cluster and configure Storage DRS
- Use new displays to monitor vSphere High Availability cluster activity
- Use the Linux-based VMware vCenter Server Appliance
- Use Auto Deploy to install a stateless ESXi host
- Use Image Builder to modify and export an image profile

## Course Modules

<p><b>1 Course Introduction</b></p> <ul style="list-style-type: none"> <li>• Introductions and course logistics</li> <li>• Course objectives</li> <li>• Other vSphere 5 learning resources</li> </ul>	<p><b>5 Storage Management</b></p> <ul style="list-style-type: none"> <li>• Describe new storage features, including VMFS-5, Fibre Channel over Ethernet software adapters, policy-driven storage vStorage API for Storage Awareness, and VMware vSphere® Storage Appliance</li> <li>• Describe enhanced features, including snapshot support for vSphere Storage vMotion, solid-state disk support, and new primitives in the vStorage API for Array Integration</li> <li>• Upgrade VMFS-3 to VMFS-5</li> <li>• Create user-defined storage capabilities and virtual machine storage profiles</li> </ul>
<p><b>2 Introduction to VMware vSphere 5.0</b></p> <ul style="list-style-type: none"> <li>• Key enhancements in ESXi, vCenter Server, and VMware vSphere® Update Manager</li> <li>• Upgrade vSphere components from vSphere 4.1 to vSphere 5.0, including vCenter Server, Update Manager, and ESXi</li> </ul>	<p><b>6 Scalability</b></p> <ul style="list-style-type: none"> <li>• Describe scaling enhancements to resource pools and VMware vSphere® vMotion®</li> <li>• Describe Storage DRS operation</li> <li>• Create a datastore cluster</li> <li>• Configure Storage DRS</li> </ul>
<p><b>3 Virtual Machine Management</b></p> <ul style="list-style-type: none"> <li>• Describe new virtual machine version 8 hardware features</li> <li>• Explain virtual machine snapshot consolidation</li> <li>• Describe the vCenter Solutions Manager</li> <li>• Upgrade a virtual machine to version 8 hardware</li> <li>• Install, register, and use the vSphere Web Client</li> </ul>	<p><b>7 High Availability</b></p> <ul style="list-style-type: none"> <li>• Describe enhancements to VMware Fault Tolerance and Enhanced vMotion Compatibility features</li> <li>• Explain the new master-slave architecture of vSphere HA</li> <li>• View the new informational displays to monitor vSphere HA cluster activity</li> </ul>
<p><b>4 Network Management</b></p> <ul style="list-style-type: none"> <li>• Describe the ESXi firewall</li> <li>• Describe new features of vNetwork distributed switches including NetFlow, port mirroring, and Link Layer Discovery Protocol</li> <li>• Describe enhancements to network I/O control, including 802.1p priority tagging and user-defined virtual machine resource pools</li> <li>• Configure the ESXi firewall</li> <li>• Configure and test port mirroring</li> </ul>	<p><b>8 New VMware vSphere Deployment Alternatives</b></p> <ul style="list-style-type: none"> <li>• Configure and use the Linux-based vCenter Server Appliance</li> <li>• Use Image Builder to create an installation image profile</li> <li>• Use Auto Deploy to deploy a stateless ESXi host</li> </ul>



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