

VMware vSphere: What's New [V5.5 to V6]

Delivery Methods

- Classroom
- Live Online
- [Onsite](#)

Course Duration

- Two (2) days of instructor-led classroom training
- 50% lecture, 50% hands-on lab

Target Audience

vSphere administrators, systems engineers and operators who have attended vSphere: Install, Configure, Manage V5.x or have the equivalent experience.

Course Suitability

- | | |
|---------------------------------------------------|--------------------------------------------------|
| <input checked="" type="checkbox"/> Administrator | <input type="checkbox"/> Expert |
| <input checked="" type="checkbox"/> Engineer | <input type="checkbox"/> Advanced |
| <input checked="" type="checkbox"/> Architect | <input checked="" type="checkbox"/> Professional |
| | <input type="checkbox"/> Fundamentals |

Prerequisites

vSphere 5.5 knowledge equivalent to attending vSphere Install, Configure, Manage [V5.x] and system administration experience on Microsoft Windows or Linux operating systems

Certifications

This course is not required or recommended for any existing certification.

For more information, go to [VMware Certification](#).

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 [VMware Education](#) to find the class that is right for you.



Course Overview

VMware vSphere: What's New is a hands-on training course that explores the newest features and enhancements in VMware vCenter Server™ 6 and VMware ESXi™ 6. Real-world use case deployment scenarios, hands-on lab exercises, and lecture material teach the skills you need to effectively implement and configure VMware vSphere® 6. This class is recommended for customers who want to deploy vSphere 6 into their existing vSphere environment.

Students who complete this course will be prepared for more advanced vSphere 6 courses, available at

www.vmware.com/education.

Course Objectives

By the end of this course, you should be able to meet the following objectives:

- Discuss the key enhancements made to vSphere 6
- Determine when to apply increased maximum configuration allowances in vSphere 6
- Configure new ESXi security and account management features
- Apply vSphere 6 upgrade and deployment processes to ESXi and vCenter Server
- Determine when to deploy the different VMware Platform Services Controller™ models
- Discuss the differences between VMware vSphere® Client™ and VMware vSphere® Web Client in the vSphere 6 release
- Upgrade virtual machines to virtual hardware version 11
- Apply the uses and benefits of VMware vRealize™ Operations Manager™
- Configure storage policies
- Create and use virtual volumes
- Allocate network resources by using VMware vSphere® Network I/O Control
- Migrate running virtual machines between vCenter Server instances by using VMware vSphere® vMotion® and VMware vSphere® Distributed Resource Scheduler™
- Discuss the key enhancements made to VMware vSphere® Fault Tolerance

Course Modules

<p>1 Course Introduction</p> <ul style="list-style-type: none"> • Introductions and course logistics • Course goals and objectives • Online vSphere resources • Location of online vSphere documentation 	<p>5 Management Enhancements</p> <ul style="list-style-type: none"> • Discuss VMware vCenter™ Single Sign-On™ authentication process • Discuss new features of vSphere 6 Certificate Authority • Discuss certificate-based guest authorization • Discuss how ESXi hosts and vCenter Server communicate securely over SSL • Describe changes for ESXi certificate replacement • Discuss upgrading the vSphere License Service • License ESXi 6 and vCenter Server by using the vSphere Web Client
<p>2 Introduction to vSphere 6</p> <ul style="list-style-type: none"> • Discuss vSphere 6 feature enhancements • Describe how vRealize Operations Manager is used to manage the software-defined data center 	<p>6 Storage Enhancements</p> <ul style="list-style-type: none"> • Discuss VMware vSphere® API for Storage Awareness™ • Configure storage-based policies • Discuss share reservations and file locking • Discuss the benefits and effects of NFS 4.1 with vSphere. • Discuss Kerberos and Remote Procedure Call (RPC) header authentication
<p>3 Install and Upgrade</p> <ul style="list-style-type: none"> • Discuss the differences between vSphere 5.5 and vSphere 6 installation process. • Confirm the system requirements for each component of vSphere 6 • Determine which vCenter Server deployment mode is required. • Discuss the vSphere 6 upgrade process • Discuss vSphere 6 installation media • Determine the correct database option for various deployment scenarios of vSphere 6 	<p>7 Network Enhancements</p> <ul style="list-style-type: none"> • Work with Network I/O Control • Upgrade Network I/O Control to version 3 • Enable network resource management on a vSphere distributed switch • Configure bandwidth allocation for system and virtual machine traffic based on shares, reservations, and limits • Discuss how IPv6 is supported in the vSphere 6 release
<p>4 Compute Enhancements</p> <ul style="list-style-type: none"> • Discuss the enhancements to vSphere 6 scalability and performance • Discuss the additional features to support hot-plug and SMART solid-state drives • Discuss the improvements to lockdown settings • Discuss how virtual hardware 11 extends virtual machine resource configurations • Discuss how hot-add memory is distributed across NUMA nodes in vSphere 6 	<p>8 Availability Enhancements</p> <ul style="list-style-type: none"> • Discuss enhancements made to vSphere vMotion • Migrate virtual machine across vCenter Server instances by using vSphere vMotion • Discuss the multiprocessor fault tolerance features and symmetric multiprocessing (SMP) capabilities in vSphere 6 • Discuss the benefits of VMware vCloud® Air™ • Describe how vCloud Air integrates with vSphere 6



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