

VMware vSphere: What's New [v6.0] H9P75S

HPE course number	H9P75S
Course length	2 days
Delivery mode	ILT/VILT
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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.

Why HPE Education Services?

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Audience

vSphere Administrators, Systems Engineers and Operators who have attended vSphere: Install, Configure, Manage V5.x or have the equivalent experience.

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.

Course objectives

- Discuss key enhancements made to vSphere in version 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

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Course introduction

- Introductions and course logistics
 - Course goals and objectives
 - Online vSphere resources
 - Location of online vSphere documentation
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Module 2: Introduction to vSphere 6

- Discuss vSphere 6 feature enhancements
 - Describe how vRealize operations manager is used to manage the software-defined data center
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Module 3: Install and upgrade

- 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
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Module 4: Compute enhancements

- 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
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Module 5: Management enhancements

- 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
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Module 6: Storage enhancements

- Discuss VMware vSphereR 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
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Module 7: Network enhancements

- Work with Network I/O Control
 - Upgrade Network I/O Control to version 3
 - Enable network resource management on a VMware 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
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Module 8: Availability enhancements

- 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 vCloudR Air
 - Describe how vCloud Air integrates with vSphere 6
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