

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

HPE course number	H9P75S
Course length	2 days
Delivery mode	ILT/VILT
View schedule, local pricing, and register	View now
View related courses	View now

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?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

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	<ul style="list-style-type: none"> • Introductions and course logistics • Course goals and objectives • Online vSphere resources • Location of online vSphere documentation
Module 2: Introduction to vSphere 6	<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
Module 3: Install and upgrade	<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
Module 4: Compute enhancements	<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
Module 5: Management enhancements	<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
Module 6: Storage enhancements	<ul style="list-style-type: none"> • 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
Module 7: Network enhancements	<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 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
Module 8: Availability enhancements	<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 vCloudR Air • Describe how vCloud Air integrates with vSphere 6

Learn more at
hpe.com/ww/learnvmware

Follow us:



© Copyright 2015–2016 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. The OpenStack Word Mark is either a registered trademark/service mark or trademark/service mark of the OpenStack Foundation, in the United States and other countries and is used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community. Pivotal and Cloud Foundry are trademarks and/or registered trademarks of Pivotal Software, Inc. in the United States and/or other countries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. VMware, VMware vSphere, VMware vSphere Distributed Resource Scheduler, VMware vSphere Fault Tolerance, VMware vSphere Network I/O Control, VMware vSphere vMotion, VMware vSphere Web Client, VMware vSphere Distributed Switch, VMware ESXi, and VMware vCenter Server are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions. All other third-party trademark(s) is/are property of their respective owner(s).