Hewlett Packard Enterprise

VMware VSphere: What's New [V6.0] H9P75S

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.

VMware VSphere: What's New [V6.0]

Price	USD $1,600
Links to local schedules, pricing and registration	**US/Canada** **Mexico/Latin America** **Brazil**
HP course #	H9P75S
Category	VMware
Duration	2 days

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

Course outline

Module 1: Course Introduction
- Introductions and course logistics
- Course goals and objectives
- Online vSphere resources
- Location of online vSphere documentation

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

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

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

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

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

Module 7: Network Enhancements
- 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

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

Learn more at

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