

5 Days

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

The VMware vSphere What's New [V5.5 TO V6.0] training course introduces you to the advanced vSphere environment introduced by VMware with enhancements over the vSphere infrastructure. This certification course has been formulated for professionals who wish to deploy vSphere 6.0 into their existing vSphere environment.

This course features the real-world use case deployment scenarios, hands-on lab exercises and a comprehensive curriculum to effectively impart the requisite knowledge of the course advancement.

This is an important course from the perspective of the vSphere Administrators to educate them of the latest enhancements and features to configure and manage the processes of the vSphere 6 architecture.

Course Details

Course Outline

1. Course Introduction

- Introduction to course logistics
- Course goals and objectives
- Online vSphere resources
- Location of online vSphere documentation

2. Introduction to vSphere 6

- Discussing vSphere 6 feature enhancements
- Describing the use of vRealize Operations Manager to manage the software-defined data center

3. Install and Upgrade

- Discussing vSphere 6 installation media
- Discussing the differences between vSphere 5.5 and vSphere 6 installation process.
- Confirming the system requirements for each component of vSphere 6
- Exploring the vSphere 6 upgrade process
- Determining which vCenter Server deployment mode is required
- Determining the correct database option for various deployment scenarios of vSphere 6

4. Compute Enhancements

- Discussing the enhancements to vSphere 6 scalability and performance
- Describing the additional features to support hot-plug and SMART solid-state drives
- Explore the improvements to lockdown settings
- Identify how virtual hardware 11 extends virtual machine resource configurations
- Discussing how hot-add memory is distributed across NUMA nodes in vSphere 6

5. Management Enhancements

- Explore VMware vCenter™ Single Sign-On™ authentication process
- Explore new features of vSphere 6 Certificate Authority
- Discussing certificate-based guest authorization
- Discussing how ESXi hosts and vCenter Server communicate securely over SSL
- Describing the changes for ESXi certificate replacement
- Discuss upgrading the vSphere License Service
- License ESXi 6 and vCenter Server by using the vSphere Web Client

6. Storage Enhancements

- Discussing VMware vSphere® API for Storage Awareness™
- Configure storage-based policies
- Discuss share reservations and file locking
- Discuss Kerberos and Remote Procedure Call (RPC) header authentication
- Discuss the benefits and effects of NFS 4.1 with vSphere.

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
- Discuss how IPv6 is supported in the vSphere 6 release
- Configure bandwidth allocation for system and virtual machine traffic based on shares, reservations, and limits

8. Availability Enhancements

- Discuss how vCloud Air integrates with vSphere 6
- Describe the benefits of VMware vCloud® Air™
- Discuss enhancements made to vSphere vMotion
- Migrate virtual machine across vCenter Server instances by using vSphere vMotion
- Discussing the multiprocessor fault tolerance features and symmetric multiprocessing (SMP) capabilities in vSphere 6

Who Should Attend

VMware vSphere: What's New [V5.5 to V6] training course is ideal for those working with the profiles of:

- vSphere Administrators
- Systems Engineer and operators who have attended vSphere: ICM V5.x or have the relevant experience.

Pre Requisite

Required prerequisites include completion of one of the following:

- vSphere 5.5 knowledge equivalent to attending vSphere ICM [V5.x]
- System administration experience on Microsoft Windows or Linux operating systems

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