

3 Days

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

VMware vSphere What's New [V5.5 to V6.5] training is a three-day hands-on training course wherein you will explore the new features and enhancements in VMware vCenter Server 6.5 and VMware ESXi 6.5.

The needed skills to effectively implement and configure VMware vSphere 6.5 will be taught through Real-world use case deployment scenarios, hands-on lab exercises, and lectures. If you want to deploy vSphere 6.5 into your current vSphere environment, then VMware vSphere Whats New [V5.5 to V6.0] training course is highly recommended for you.

### Product Alignment

- ESXi 6.5
- vCenter Server 6.5

Completion of the course will enable candidates to:

- Work with VMware vSphere Network I/O Control to create and configure a distributed switch.
- Configure NFS and iSCSI backed virtual volumes.
- Configure virtual machines to check for and install VMware Tools.
- Create a multi-site content library for synchronizing virtual machine templates, vApps, ISO images, and scripts across vCenter Server instances.

## Course Details

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### Course Outline

#### 1. Course Introduction

- Course objectives
- Introductions and course logistics

#### 2. New Features in vSphere 6.5

- Discussing new features and enhancements in vSphere 6.5
- Use VMware Host Client, vSphere Client, and the vCenter Server Appliance shell

### **3. Installation and Upgrade**

- Learn Upgrade vCenter Server 5.x and 6.0 to vCenter Server 6.5
- Subscribe to a published content library
- Deploy virtual machines from a content library
- Choose between a distributed and an embedded configuration

### **4. Compute Enhancements**

- Explain the changes that enhance user accountability
- Describe the addition of smart-card authentication
- Discuss the improvements to lockdown settings
- Discuss the distribution of hot-add memory across NUMA nodes in vSphere 6.x

### **5. Storage Enhancements**

- Benefits of using NFS v4.1 with vSphere
- Differences between NFS v3 and NFS v4.1
- Describe the enhancements to vSphere Storage DRS and Storage I/O Control
- Describing VMware vSAN enhancements in the following areas: Availability, Performance, Scalability, Space efficiency, Operational, and Usability

### **6. Security Enhancements**

- Use encryption in your vSphere environment
- Explain how to backup encrypted virtual machines
- Plan for secure boot support for ESXi hosts
- Deploy enhanced vSphere logging, vCenter Server events & alarms

### **7. Network Enhancements**

- Discuss IPv6 support in vSphere 6.0
- Upgrade Network I/O Control to version 3
- Enabling network resource management on VMware vSphere Distributed Switch

### **8. Management Enhancements**

- Define VMware CA certificate replacement options
- Describing primary services provided by the VMware Endpoint Certificate Store component
- Discuss certificate-based guest authentication
- Make a List of the core security modules that are part of VMware Platform Services Controller

### **9. Availability Enhancements**

- Increase VM and workload uptime with Predictive DRS
- Discuss how Proactive HA helps reduce VM downtime
- Describe how Platform Services Controller high availability works

## Who Should Attend

This course is Ideal for:

- IT managers
- System administrators
- System architects
- VMware partners
- Individuals responsible for implementing and managing vSphere architectures

## Pre Requisite

You should have completed one of the following courses or have equivalent knowledge and administration experience with VMware ESX®/ESXi and vCenter Server:

- VMware vSphere: Fast Track [V5.5 or V6]
- VMware vSphere: Install, Configure, Manage [V5.5 or V6]
- VMware vSphere: Troubleshooting [V5.5 or V6]
- VMware vSphere: What's New [V5.5 or V6]

You should be able to perform the following tasks with no assistance or guidance:

- Create vCenter Server objects
- Create a VMware vSphere VMFS datastore
- Create and modify a standard and distributed switch
- Create and manage vCenter Server roles and permissions
- Connecting ESX/ESXi host to NAS, iSCSI, or Fibre Channel storage
- Configure & manage a VMware vSphere® Distributed Resource Scheduler™ and High Availability cluster
- Install and configure ESX or ESXi
- vCenter Server Installation
- Enable vSphere vMotion on an ESX/ESXi host
- Migrate a virtual machine with VMware vSphere® Storage vMotion® and vSphere vMotion
- How to Modify Virtual machine's hardware
- create a virtual machine using a wizard or a template

Date - Apr 19, 2024