Enterprise Computing Solutions - Education Services

# TRAINING OFFERING

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# VMware vSphere: What's New [V6.7 to V7]

| CODE: | LENGTH: | PRICE: |
|---|---|---|
| VMW_VSWN7 | 24 Hours (3 days) | €2,070.00 |

## Description

In this three-day, hands-on training course, you explore the new features and enhancements in VMware vCenter Server® 7 and VMware ESXi™ 7. Real-world use-case deployment scenarios, hands-on lab exercises, and lectures teach you the skills that you need to effectively implement and configure VMware vSphere® 7.
This course is recommended for customers who want to deploy vSphere 7 in their existing vSphere environment.

## Objectives

By the end of the course, you should be able to meet the following objectives:
• List and describe the importance of key features and enhancements in vSphere 6.7 update releases and vSphere 7
• Determine the proper upgrade path for a vCenter Server instance and upgrade VMware vCenter® Server Appliance™ to version 7
• Migrate a Windows vCenter Server system to vCenter Server Appliance 7
• Manage and update VM templates located in content libraries
• Use Identity Federation to configure vCenter Server to use Microsoft ADFS
• Use the VMware vSphere® Client™ to manage certificates
• Describe vCenter Server, VMware ESXi™, storage, network, virtual machine, and security enhancements in vSphere 7
• Use VMware vSphere® Trust Authority™ to secure the infrastructure for encrypted VMs
• Demonstrate the Quickstart feature of the ESXi cluster
• Recognize improvements to VMware vSphere® Distributed Resource Scheduler™
• Use vSphere Lifecycle Manager to manage vSphere deployments, updates, and configurations
• Discuss the purpose and capabilities of VMware vSphere® with Kubernetes and how it fits into the VMware Tanzu™ portfolio

## Audience

System architects, system administrators, IT managers, VMware partners, and individuals responsible for implementing and managing vSphere architectures

## Prerequisites

This course requires completion of one the following courses or equivalent knowledge and administration experience with ESXi and vCenter Server:
• VMware vSphere: Install, Configure, Manage • VMware vSphere: Optimize and Scale • VMware vSphere: Fast Track
DATASHEET | 2 VMware vSphere: What's New • VMware vSphere: Troubleshooting
The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:
• Install and configure ESXi • Install vCenter Server • Create vCenter Server objects, such as data centers and folders
• Create and manage vCenter Server roles and permissions • Create and modify a standard switch
• Create and modify a distributed switch • Connect an ESXi host to NAS, iSCSI, or Fibre Channel storage
• Create a VMFS datastore • Use a content library template to create a virtual machine • Modify a virtual machine's hardware
• Migrate a virtual machine with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
• Configure and manage a vSphere DRS cluster • Configure and manage a VMware vSphere® High Availability cluster
• Use VMware vSphere® Update ManagerTM to apply patches and perform upgrades to ESXi hosts and VMs
If you cannot complete these tasks, VMware recommends that you instead take the VMware vSphere: Install, Configure, Manage [V7] course.

## Programme

1 Course Introduction • Introductions and course logistics • Course objectives 2 Installation and Upgrade
• Describe the new vCenter Server Appliance deployment model
• Upgrade a vCenter Server Appliance instance to vCenter Server Appliance 7
• Migrate a Windows vCenter Server instance to vCenter Server Appliance 7
• Describe the enhancements to vCenter Server Appliance 3 Management Enhancements
• Identify the scaling and performance improvements for vCenter Server Appliance
• Describe the support provided for dynamic DNS • Recognize how to change the IP address or FQDN of vCenter Server
• Describe prefix-based MAC address allocation • Perform a VM template in-place update in Content Library
• Describe identity federation and recognize its use cases • Configure identity federation
• Manage certificates using the vSphere Client
• Identify VMware NSX-TTM logical switches and their properties in the vSphere Client
• Explain the benefits of using VMware SkylineTM to proactively monitor your environment 4 ESXi Enhancements
• Upgrade an ESXi host to version 7 • List the enhancements introduced with ESXi 7 • Describe new device support for ESXi hosts
• Describe support for Precision Time Protocol 5 VM Enhancements
• Discuss the new functionality, virtual devices, and VM maximums supported by VM compatibility version 17
• Describe the enhancements to guest customization • Perform a vSphere vMotion migration of VMs with remote devices
6 Storage Enhancements • Describe the enhancements to NVMe support
• Describe the enhancements to VMware Pluggable Storage Architecture • Describe the purpose of the High-Performance Plug-in
• Describe the support for iSER • Recognize the changes made to the ESXi system storage layout
• Describe the support for CAB deployment of WSFC in vSphere 6.7 and later • List the enhancements made to vSAN
7 Security Enhancements • Describe the enhancements to the VM encryption feature
• Describe the enhancements to cloning, migration, and encryption operations
• Describe the benefits and use cases of vSphere Trust Authority • Configure vSphere Trust Authority 8 Cluster Enhancements
• Demonstrate the Quickstart feature of the ESXi cluster • Recognize improvements to vSphere DRS
• Describe use cases for scalable shares 9 vSphere Lifecycle Management
• Use vCenter Server Update Planner to run vCenter Server upgrade prechecks
• Compare vSphere Lifecycle Manager to vSphere Update Manager
• Manage and update ESXi hosts using vSphere Lifecycle Manager 10 Introduction to vSphere with Kubernetes
• Differentiate between containers and virtual machines • Identify the parts of a container system
• Recognize the basic architecture of Kubernetes • Describe a basic Kubernetes workflow •Describe the purpose of vSphere with Kubernetes and how it fits into the VMware Tanzu portfolio • Explain the vSphere with Kubernetes supervisor cluster
• Describe the Tanzu Kubernetes grid service

## Session Dates

On request. Please Contact Us

## Additional Information

This training is also available as onsite training. Please contact us to find out more.