



# VMware vSphere: What's New V8

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In this two-day course, you will learn about the new features and enhancements of VMware vCenter Server 8.0 and VMware ESXi 8.0. Using real-world application scenarios, hands-on lab exercises and lectures, you will learn the skills you need to effectively implement and configure VMware vSphere 8.0.

### Course Contents

- Course Introduction
- Artificial Intelligence and Machine Learning
- vSphere Distributed Services Engine
- vSphere and vCenter Management
- ESXi Enhancements
- vSphere Storage
- Guest OS and Workloads
- Resource Management
- Security and Compliance
- vSphere Lifecycle Manager
- Auto Deploy
- vSphere with Tanzu
- Announcing vSphere+

**E-Book** You will receive the documentation of VMware in English language as an e-book.

### Target Group

System architects, system administrators, IT managers, VMware partners, and individuals responsible for implementing and managing vSphere architectures who want to deploy vSphere 8.0 in their existing vSphere environment.

### Prerequisites

This course requires completion of one of the following courses or equivalent knowledge and experience administering ESXi and vCenter Server:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Optimize and Scale
- VMware vSphere: Fast Track
- VMware vSphere: Troubleshooting

Experience with working in the command line is helpful.

The course material assumes that you can perform the following tasks without help 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 VMware vSphere VMFS datastore
- Use a content library template to create a virtual machine
- Change the hardware of a virtual machine
- Migrate a virtual machine using VMware vSphere vMotion and VMware vSphere Storage vMotion
- Configure and manage a VMware vSphere Distributed Resource Scheduler cluster
- Configure and manage a VMware vSphere High Availability cluster
- Use VMware vSphere Lifecycle Manager to perform upgrades for ESXi hosts and VMs

If you cannot perform all of these tasks, VMware recommends that you instead take the course "VMware vSphere: Install, Configure, Manage (V8.x)" course instead

### Course Target

Course attendance is recognized as an update option as part of certification as a VMware Certified Professional - Data Center Virtualization.

Status 05/07/2025

### This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

[www.expertech-training.com/go/VMWN](http://www.expertech-training.com/go/VMWN)

### Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

### Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

### Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
<b>Classes in Germany</b>	<b>2 Days</b>	<b>€ 1,495</b>
<b>Classes in Austria</b>	<b>2 Days</b>	<b>€ 1,495</b>
<b>Online Training</b>	<b>2 Days</b>	<b>€ 1,495</b>
<b>Date/course venue</b>	<b>Course language German</b>	
26/05-27/05/25	Frankfurt	11/09-12/09/25
26/05-27/05/25	Online	11/09-12/09/25
24/07-25/07/25	Hamburg	01/12-02/12/25
24/07-25/07/25	Online	01/12-02/12/25



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### 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-T™ logical switches and their properties in the vSphere Client
- Explain the benefits of using VMware Skyline™ 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

