Enterprise Computing Solutions - Education Services

# TRAINING OFFERING

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# VMware vSphere: What's New [V8]

| Kod: | Czas trwania: | Cena netto: |
|---|---|---|
| VMW_VSWN8 | 16 Hours (2 days) | zł4,300.00 |

## Description

In this two-day course, you explore the new features and enhancements following VMware vCenter Server 8.0 and VMware ESXi 8.0. Real-world use-case scenarios, hands-on lab exercises, and lectures teach you the skills that you need to effectively implement and configure VMware vSphere 8.0.

## Cel szkolenia

By the end of the course, you should be able to meet the following objectives:
• Recognize the importance of key features and enhancements in vSphere 8.0
• Describe vCenter Server, VMware ESXi, storage, virtual machine, and security enhancements in vSphere 8.0
• Describe the purpose of vSphere Distributed Services Engine
• Update an ESXi host equipped with a Data Processing Unit (DPU) using vSphere Lifecycle Manager
• Identify devices supported for system storage on ESXi 8.0
• Recognize enhancements to VM hardware compatibility settings
• VMware vSphere Memory Monitoring and Remediation and the improvements to vSphere DRS
• Recognize the new Virtual Non-Uniform Memory Access (vNUMA) topology settings of a VM in vSphere Client
• Use vSphere Lifecycle Manager and Auto Deploy to manage the configuration specifications for the hosts in a cluster
• Recognize the vSphere Lifecycle Manager and Auto Deploy enhancements in vSphere 8.0
• Recognize the cloud benefits that VMware vSphere+ brings to on-premises workloads
• Recognize technology that is discontinued or deprecated in vSphere 8.0

## Uczestnicy

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

## Wymagania wstępne

This course requires completion of one of the following courses, or equivalent knowledge, plus administration experience with ESXi and vCenter Server:
• VMware vSphere: Install, Configure, Manage
• VMware vSphere: Optimize and Scale
• VMware vSphere: Fast Track
• VMware vSphere: Troubleshooting
• Experience with working at the command line is helpful.

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 VMware vSphere 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 VMware vSphere Distributed Resource Scheduler cluster
• Configure and manage a VMware vSphere High Availability cluster
• Use VMware vSphere Lifecycle Manager to 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 [V8] course.

## Program szkolenia

**1. Course Introduction**
• Introductions and course logistics
• Course objectives

**2. Artificial Intelligence and Machine Learning**
• Describe how device groups support AI and ML in vSphere 8
• Describe how device virtualization extensions support AI and ML in vSphere 8

**3. vSphere Distributed Services Engine**
• Describe the benefits of Distributed Services Engine
• Explain how Distributed Services Engine works
• Recognize use cases for Distributed Services Engine
• Install ESXi on a host equipped with a DPU
• View DPU information in vSphere Client
• Add an ESXi host equipped with a DPU to a cluster
• Update an ESXi host equipped with a DPU using vSphere Lifecycle Manager
• Create a vSphere Distributed Switch for network offloads
• Add a host with a DPU to the vSphere Distributed Switch
• Configure a VM to use Uniform Passthrough Mode

**4. vSphere and vCenter Management**
• Review the improvements to the communication between vCenter and ESXi hosts
• Review the enhancements to the vCenter recovery process

**5. ESXi Enhancements**
• Describe the function of the central configuration store in ESXi
• Explain how ConfigStore affects your interaction with ESXi configuration files
• Recognize the supported system storage partition configuration on ESXi 8.0
• Identify devices supported for system storage on ESXi 8.0
• Configure an RDMA host local device on ESXi

**6. vSphere Storage**
• Describe the vSAN Express Storage Architecture
• Recognize the benefits of using vSAN Express Storage Architecture
• Describe the benefits of using NVMe
• Recognize the support for NVMe devices in vSphere

**7. Guest OS and Workloads**
• Review the enhancements of the latest virtual hardware versions
• Describe the features introduced with virtual hardware version 20
• Create a snapshot of a VM with an NVDIMM device

**8. Resource Management**
• View energy and carbon emission metrics in vRealize Operations Manager
• Describe the VMware vSphere Memory Monitoring and Remediation (vMMR) functionality
• Describe how vMMR enhances the performance of vSphere DRS

**9. Security and Compliance**
• Describe how to handle vTPM secrets when cloning a VM
• Manage OVF templates for VMs that are configured with vTPM
• Deploy an OVF template with vTPM
• Describe the enhancements to trusted binary enforcement in ESXi
• Describe ESXi 8 enhanced security features

**10. vSphere Lifecycle Manager**
• Describe the enhancements to life cycle management of standalone ESXi hosts
• Manage the configuration profiles of ESXi hosts in a cluster with vSphere Lifecycle Manager
• Use Auto Deploy to boot a host with the desired image and configuration specifications
• Upgrade multiple ESXi hosts in a cluster in parallel

• Stage an ESXi host image prior to remediation

**11. Auto Deploy**
• Manage custom host certificates using Auto Deploy

**12. vSphere with Tanzu**
• Describe the features of the Tanzu Kubernetes Grid 2.0 offering

**13. Announcing vSphere+**
• Describe the functionality and benefits of vSphere+

## Więcej informacji

Product Alignment
• VMware ESXi 8.0
• VMware vCenter Server 8.0

## Terminy

Na żądanie. Prosimy o kontakt

## Dodatkowe informacje

Jeśli interesują Cię inne szkolenia tego producenta - skontaktuj się z nami.