

# VMware vSphere: Fast Track V8

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Dieser fünftägige Intensivkurs mit erweiterten Kurszeiten führt Sie von der Einführung bis zum fortgeschrittenen Management von VMware vSphere. Aufbauend auf den Installations- und Konfigurationsinhalten aus unserem Bestseller-Kurs entwickeln Sie außerdem die notwendigen Fähigkeiten, um eine hochverfügbare und skalierbare virtuelle Infrastruktur zu verwalten und zu warten. Durch eine Mischung aus Lektionen und praktischen Übungen installieren, konfigurieren und verwalten Sie vSphere. Sie erforschen die Funktionen, die die Grundlage für eine wirklich skalierbare Infrastruktur bilden, und diskutieren, wann und wo diese Funktionen die größte Wirkung haben. Dieser Kurs bereitet Sie auf die Administration einer vSphere-Infrastruktur für Unternehmen jeder Größe mit vSphere 8.x vor, was VMware ESXi 8.x und VMware vCenter Server 8.x umfasst.

Das Seminar wird als Voraussetzung zum Examen für die Zertifizierung VMware Certified Professional Data Center Virtualization (VCP-DCV) anerkannt.

### Kursinhalt

- Course Introduction
- vSphere and Virtualization Overview
- vCenter Management
- Configure and Manage vSphere Networking
- Configure and Manage vSphere Storage
- Deploying Virtual Machines
- Managing Virtual Machines
- vSphere Cluster Management
- Managing the vSphere Lifecycle
- Network Operations
- Storage Operations
- ESXi Operations
- vSphere Monitoring

**E-Book** Sie erhalten englischsprachige Unterlagen von VMware als E-Book.

### Zielgruppe

- System Administratoren
- System Engineers

### Voraussetzungen

Erfahrung bei der Systemadministration mit Microsoft Windows- oder Linux-Betriebssystemen.

### Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: [www.experteach.de/go/VMFA](http://www.experteach.de/go/VMFA)

### Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

### Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

### Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training	Preise zzgl. MwSt.	
<b>Termine in Deutschland</b>	<b>5 Tage</b>	<b>€ 4.395,-</b>
<b>Termine in Österreich</b>	<b>5 Tage</b>	<b>€ 4.395,-</b>
<b>Termine in der Schweiz</b>	<b>5 Tage</b>	
<b>Online Training</b>	<b>5 Tage</b>	<b>€ 4.395,-</b>
<b>Termin/Kursort</b>	Kurssprache Deutsch	
03.06.-07.06.24	Frankfurt	16.09.-20.09.24  Wien
03.06.-07.06.24	Online	21.10.-25.10.24  München
01.07.-05.07.24	Hamburg	21.10.-25.10.24  Online
01.07.-05.07.24	Online	21.10.-25.10.24 Zürich
05.08.-09.08.24	Düsseldorf	25.11.-29.11.24  Frankfurt
05.08.-09.08.24	Online	25.11.-29.11.24  Online
16.09.-20.09.24	Online	

Stand 28.04.2024



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## VMware vSphere: Fast Track V8

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 vSphere and Virtualization Overview

- Explain basic virtualization concepts
- Describe how vSphere fits in the software-defined data center and the cloud infrastructure
- Recognize the user interfaces for accessing vSphere
- Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs
- Install an ESXi host

### 3 vCenter Management

- Recognize ESXi hosts communication with vCenter
- Deploy vCenter Server Appliance
- Configure vCenter settings
- Use the vSphere Client to add and manage license keys
- Create and organize vCenter inventory objects
- Recognize the rules for applying vCenter permissions
- View vSphere tasks and events
- Create a vCenter backup schedule
- Recognize the importance of vCenter High Availability
- Explain how vCenter High Availability works

### 4 Configure and Manage vSphere Networking

- Configure and view standard switch configurations
- Configure and view distributed switch configurations
- Recognize the difference between standard switches and distributed switches
- Explain how to set networking policies on standard and distributed switches

### 5 Configure and Manage vSphere Storage

- Recognize vSphere storage technologies
- Identify types of vSphere datastores
- Describe Fibre Channel components and addressing
- Describe iSCSI components and addressing
- Configure iSCSI storage on ESXi
- Create and manage VMFS datastores
- Configure and manage NFS datastores
- Discuss vSphere support for NVMe and iSER technologies

### 6 Deploying Virtual Machines

- Create and provision VMs
- Explain the importance of VMware Tools
- Identify the files that make up a VM
- Recognize the components of a VM

- Navigate the vSphere Client and examine VM settings and options
- Modify VMs by dynamically increasing resources
- Create VM templates and deploy VMs from them
- Clone VMs
- Create customization specifications for guest operating systems
- Create local, published, and subscribed content libraries
- Deploy VMs from content libraries
- Manage multiple versions of VM templates in content libraries

### 7 Managing Virtual Machines

- Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- Migrate VMs using vSphere vMotion
- Describe the role of Enhanced vMotion Compatibility in migrations
- Migrate VMs using vSphere Storage vMotion
- Take a snapshot of a VM
- Manage, consolidate, and delete snapshots
- Describe CPU and memory concepts in relation to a virtualized environment
- Describe how VMs compete for resources
- Define CPU and memory shares, reservations, and limits
- Recognize the role of a VMware Tools Repository
- Configure a VMware Tools Repository
- Recognize the backup and restore solution for VMs

### 8 vSphere Cluster Management

- Use Cluster Quickstart to enable vSphere cluster services and configure the cluster
- View information about a vSphere cluster
- Explain how vSphere DRS determines VM placement on hosts in the cluster
- Recognize use cases for vSphere DRS settings
- Monitor a vSphere DRS cluster
- Describe how vSphere HA responds to different types of failures
- Identify options for configuring network redundancy in a vSphere HA cluster
- Recognize the use cases for various vSphere HA settings
- Configure a cluster enabled for vSphere DRS and vSphere HA
- Recognize when to use vSphere Fault Tolerance

- Describe the function of the vCLS
- Recognize operations that might disrupt the healthy functioning of vCLS VMs

### 9 Managing the vSphere Lifecycle

- Generate vCenter interoperability reports
- Recognize features of vSphere Lifecycle Manager
- Describe ESXi images and image depots
- Enable vSphere Lifecycle Manager in a vSphere cluster
- Validate ESXi host compliance against a cluster image and remediate ESXi hosts using vSphere Lifecycle Manager
- Describe vSphere Lifecycle Manager automatic recommendations
- Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

### 10 Network Operations

- Configure and manage vSphere distributed switches
- Describe how VMware vSphere Network I/O Control enhances performance
- Define vSphere Distributed Services Engine
- Describe the use cases and benefits of vSphere Distributed Services Engine

### 11 Storage Operations

- Describe the architecture and requirements of vSAN configuration
- Describe storage policy-based management
- Recognize components in the vSphere Virtual Volumes architecture
- Configure Storage I/O Control

### 12 ESXi Operations

- Use host profiles to manage ESXi configuration compliance
- Recognize the benefits of using configuration profiles

### 13 vSphere Monitoring

- Monitor the key factors that can affect a virtual machine's performance
- Describe the factors that influence vCenter performance
- Use vCenter tools to monitor resource use
- Create custom alarms in vCenter
- Describe the benefits and capabilities of VMware Skyline
- Recognize uses for Skyline Advisor Pro

