

# VMware vSphere 6.7: Optimize & Scale



## VMware vSphere 6.7: Optimize & Scale

This five-day course will teach you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will configure and optimize the VMware vSphere® 6.7 features that build a foundation for a truly scalable infrastructure, and you will discuss when and where these features have the greatest effect. This course will deepen your understanding of vSphere and how its advanced features and controls can benefit your organization.

This course prepares you for the following certification: VMware Certified Professional 6.5 – Data Center Virtualization (VCP6.5-DCV)

### Kursinhalt

- Course Introduction
- Network Scalability
- Storage Scalability
- Host and Management Scalability
- CPU Optimization
- Memory Optimization
- Storage Optimization
- Network Optimization
- Analyzing vSphere
- vCenter Server Availability and Performance
- vSphere Security

**E-Book** Jeder Teilnehmer erhält englischsprachige Unterlagen von VMware als E-Book.

### Zielgruppe

Experienced system administrators, system engineers, system integrators.

### Voraussetzungen

This course requires completion of one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.7] course
- Equivalent knowledge and administration experience with ESXi and vCenter Server

Experience with working at the command prompt is highly recommended.

### Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: [www.expertech.de/go/VM06](http://www.expertech.de/go/VM06)

### 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>Classroom Training</b> | <b>5 Tage</b>   | <b>€ 3.795,-</b>  |
| <b>Hybrid Training</b>    | <b>5 Tage</b>   | <b>€ 3.795,-</b>  |
| <b>Online Training</b>    | <b>5 Tage</b>   | <b>€ 3.795,-</b>  |
| <b>Termin/Kursort</b>     | Kurs Sprache Deutsch   |   |
| 03.06.-07.06.19           | Hamburg   | 15.07.-19.07.19  Schwalba. |
| 03.06.-07.06.19           | München   | 19.08.-23.08.19 Wien  |
| 24.06.-28.06.19           | Berlin  | 07.10.-11.10.19 München   |
| 15.07.-19.07.19           |  Online                | 14.10.-18.10.19 Berlin  |
| <b>Termin/Kursort</b>     | Kurs Sprache Englisch  |   |
| 03.06.-07.06.19           |  Online                | 11.11.-15.11.19  Online    |
| 08.07.-12.07.19           |  Online                |   |

Stand 24.05.2019



# Inhaltsverzeichnis

## VMware vSphere 6.7: Optimize & Scale

### 1 Course Introduction

- Introductions and course logistics
- Course objectives
- Identify additional resources for after this course
- Identify other VMware Education offerings

### 2 Network Scalability

- Configure and manage vSphere distributed switches
- Explain distributed switch features such as port mirroring, LACP, QoS tagging, and NetFlow

### 3 Storage Scalability

- Explain VMware vSphere® Storage APIs - Array Integration, VMware vSphere® API for Storage Awareness™, and vSphere APIs for I/O Filtering
- Configure and assign virtual machine storage policies
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control

### 4 Host and Management Scalability

- Define and use content libraries
- Describe and use host profiles
- Describe and use VMware vSphere® ESXi™ Image Builder CLI and vSphere Auto Deploy

### 5 CPU Optimization

- Explain the CPU scheduler operation, NUMA support, and other features that affect CPU performance
- Use esxtop to monitor key CPU performance metrics

### 6 Memory Optimization

- Explain ballooning, memory compression, and host-swapping techniques for memory reclamation when memory is overcommitted
- Use esxtop to monitor key memory performance metrics

### 7 Storage Optimization

- Describe storage queue types and other factors that affect storage performance
- Use esxtop to monitor key storage performance metrics

### 8 Network Optimization

- Explain the performance features of network adapters
- Explain the performance features of vSphere networking
- Use esxtop to monitor key network performance metrics

### 9 vCenter Server Performance Optimization

- Describe the factors that influence vCenter Server performance
- Monitor VMware vCenter® Server Appliance™ resource usage

### 10 vSphere Security

- Configure ESXi host access and authorization
- Secure ESXi, vCenter Server, and virtual machines
- Use VMware Certificate Authority to configure vSphere certificate management
- Configure vSphere to encrypt virtual machines, core dumps and VMware vSphere® VM



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