

## VMware vSAN: Management and Operations V7

**Bitte beachten Sie:** Dieses Training ersetzt die Kurse VMware vSAN: Deploy and Manage V6.x und VMware vSAN: Production Operations (V6.x).

In this three-day course, you learn about managing and operating VMware vSAN™ 7. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as, vSAN node management, cluster maintenance, security operations and advanced vSAN cluster operations. You also gain practical experience through the completion of instructor-led activities and hands-on lab exercises.

### Kursinhalt

- Course Introduction
- vSAN Node Management
- vSAN Resilience and Data Availability Operations
- vSAN Cluster Maintenance
- HCI Mesh Using Remote vSAN
- Managing Advanced vSAN Cluster Operations
- Managing vSAN Storage Space Efficiency Operations
- vSAN Security Operations
- vSAN Cluster Monitoring
- vSAN Direct
- Native vSAN File Service

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

### Zielgruppe

Storage and virtual infrastructure administrators who are responsible for production support and administration of VMware vSAN 7.

### Voraussetzungen

Completion of the following courses is required:

- VMware vSphere: Install, Configure, Manage (v7) or equivalent knowledge
- VMware vSAN: Plan and Deploy (v7)

### Dieser Kurs im Web



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

### 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>3 Tage</b>	<b>€ 2.195,-</b>	
<b>Online Training</b>	<b>3 Tage</b>	<b>€ 2.195,-</b>	
<b>Termin/Kursort</b>	Kurssprache Deutsch		
19.06.-21.06.24	München	18.09.-20.09.24	Online
19.06.-21.06.24	Online	06.11.-08.11.24	Frankfurt
18.09.-20.09.24	Frankfurt	06.11.-08.11.24	Online

Stand 27.04.2024



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## VMware vSAN: Management and Operations V7

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 vSAN Node Management

- Recognize the importance of hardware compatibility
- Ensure the compatibility of driver and firmware versioning
- Use tools to automate driver validation and installation
- Apply host hardware settings for optimum performance
- Use vSphere Lifecycle Manager to perform upgrades

### 3 vSAN Resilience and Data Availability Operations

- Describe vSAN storage policies
- Recognize the impact of a vSAN storage policy change
- Describe and configure the Object Repair Timer advanced option
- Plan disk replacement in a vSAN cluster
- Plan maintenance tasks to avoid vSAN object failures
- Recognize the importance of managing snapshot utilization in a vSAN cluster
- Configure the vSAN fault domains

### 4 vSAN Cluster Maintenance

- Perform typical vSAN maintenance operations
- Describe vSAN maintenance modes and data evacuation options
- Assess the impact on cluster objects of entering maintenance mode
- Determine the specific data actions required after exiting maintenance mode
- Define the steps to shut down and reboot hosts and vSAN clusters
- Use best practices for boot devices
- Replace vSAN nodes

### 5 HCI Mesh Using Remote vSAN

- Discuss the use cases for Remote vSAN
- Understand the high-level architecture
- Describe remote datastore operations
- Discuss the network requirement

- Interoperability between Remote vSAN and VMware vSphere-High Availability

### 6 Managing Advanced vSAN Cluster Operations

- Describe the architecture for stretched clusters and two-node clusters
- Understand the importance of Witness Node
- Describe how stretched cluster storage policies affect vSAN objects
- Create and apply a vSAN stretched cluster policy to meet specific needs
- Discuss stretched cluster failure scenarios and responses

### 7 Managing vSAN Storage Space Efficiency Operations

- Discuss Deduplication and Compression techniques
- Understand Deduplication and Compression overhead
- Discuss Compression only mode
- Configure Erasure Coding
- Configure swap object Thin Provisioning
- Discuss Reclaiming Storage Space with SCSI UNMAP
- Configure TRIM/UNMAP

### 8 vSAN Security Operations

- Identify differences between VM encryption and vSAN encryption
- Perform ongoing operations to maintain data security
- Describe the workflow of Data-in Transit encryption
- Identify the steps involved in replacing Key Management Server

### 9 vSAN Cluster Monitoring

- Describe how the Customer Experience Improvement Program (CEIP) enables VMware to improve products and services
- Use vSphere Skyline Health for monitoring vSAN Cluster Health
- Manage alerts, alarms, and notifications related to vSAN in vSphere Client
- Create and configure custom alarms to trigger vSAN health issues
- Use IO Insight metrics for monitoring vSAN performance

- Analyse vsantop performance metrics
- Use vSAN Proactive Test to detect and diagnose cluster issues

### 10 vSAN Direct

- Discuss the use cases for vSAN Direct
- Understand the overall architecture of vSAN Direct
- Describe the workflow of vSAN Direct datastore creation
- Explore how vSAN Direct works with storage policy tagging

### 11 Native vSAN File Service

- Discuss the use cases for vSAN file service
- Understand the high-level architecture of vSAN file service
- Discuss the authentication model
- Configure file shares
- Monitor file share health and capacity utilization

