

# VMware vSAN: Production Operations (V6.x)

In this three-day course, you will focus on building skills in configuring and performing common day 2 administrator and end-user tasks with VMware vSAN™ 6.x. You will gain practical experience with vSAN production operations through the completion of instructor-led activities and hands-on lab exercises.

## Kursinhalt

- Course Introduction
- vSAN Host and Hardware Operations
- vSAN Data Availability Operations
- vSAN Cluster Maintenance
- vSAN Security Operations
- vSAN Monitoring and Performance

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

## Zielgruppe

Storage and virtual infrastructure administrators who are responsible for production support and administration of vSAN v6.x

## Voraussetzungen

This course has the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.x] course
- Storage administration experience with block or file storage devices

Completion of the VMware vSAN 6.x Deploy and Manage course or equivalent experience with vSAN is desirable.

The course presumes that a student can perform the following tasks with no assistance or guidance before enrolling:

- Use VMware vSphere® Web Client
- Create and manage VMware vCenter Server® objects, such as data centers, clusters, hosts, and virtual machines
- Create and modify a standard switch
- Connect a VMware ESXi™ host to NAS, iSCSI, or Fibre Channel storage
- Create a VMware vSphere® VMFS datastore
- Use a wizard or a template to create a virtual machine
- Migrate a virtual machine with VMware vSphere® vMotion®
- Migrate a virtual machine with VMware vSphere® Storage vMotion®

If you cannot complete all of these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage [V6.x] and VMware vSAN: Deploy and Manage [V6.x] courses before enrolling in VMware vSAN: Production Operations.

## Dieser Kurs im Web



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

## 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.	
Classroom Training	3 Tage	CHF 2.640,-
Termine auf Anfrage		

Stand 17.01.2019



# Inhaltsverzeichnis

## VMware vSAN: Production Operations (V6.x)

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 vSAN Host and Hardware Operations

- 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
- Recognize the benefits of using VMware vSphere® Distributed Switch™
- Compare the benefits of NIC teaming and Link Aggregation Control Protocol (LACP)
- Plan appropriately for networking configuration changes
- Identify ESXCLI commands and namespace options
- Recognize how to use ESXCLI commands for troubleshooting vSAN software and hardware issues
- Use Ruby vSphere Console (RVC) to get detailed information about the vSAN environment

### 3 vSAN 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 backing up data in vSAN
- Describe the VMware vSphere® Storage APIs - Data Protection framework
- Recognize the importance of managing snapshot utilization in a vSAN cluster

### 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
- Migrate vSAN to a new vCenter Server instance
- Use best practices for boot devices
- Upgrade and update vSAN
- Replace vSAN hardware by using scale-in and scale-out strategies

### 5 vSAN Security Operations

- Identify differences between VM encryption and vSAN encryption
- Recognize how to perform ongoing operations to maintain data security
- Identify steps in adding an existing encrypted vSAN cluster to a new vCenter Server instance

### 6 vSAN Monitoring and Performance

- Describe how the Customer Experience Improvement Program (CEIP) enables VMware to improve products and services
- Identify the vSAN tools and health checks available for monitoring vSAN health
- Manage alerts, alarms, and notifications related to vSAN in vSphere Client
- Create and configure custom alarms to trigger vSAN health issues
- Describe the vSAN tools and services that monitor vSAN performance
- Use performance views to access metrics for monitoring vSAN clusters, hosts, and virtual machines
- Explain how the writing of data generates I/O traffic and affects vSAN performance
- Use performance metrics to analyze the vSAN environment



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