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TRAINING OFFERING

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VMware vSAN: Fast Track [V7]

CODE:	LÄNGE:	PREIS:
VMW_VSANFT7	40 Hours (5 Tage)	€5,250.00

Description

During this five-day, intensive course, you gain the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. You learn about managing and operating vSAN. 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 focus on learning the tools and skills necessary to troubleshoot vSAN 7 implementations and gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises.
This course is a combination of the following courses: VMware vSAN: Plan and Deploy, VMware vSAN: Management and Operations, and VMware vSAN: Troubleshooting.

Lernziel

By the end of the course, you should be able to meet the following objectives:

- • Describe vSAN concepts
- • Detail the underlying vSAN architecture and components
- • Explain the key features and use cases for vSAN
- • Identify requirements and planning considerations for vSAN clusters
- • Describe the different vSAN deployment options
- • Explain how to configure vSAN fault domains
- • Detail how to define and create a VM Storage policy
- • Discuss the impact of vSAN storage policy changes
- • Describe vSAN storage space efficiency
- • Explain how vSAN encryption works
- • Identify requirements to configure vSAN iSCSI target
- • Detail HCI Mesh technology and architecture
- • Detail vSAN file service architecture and configuration
- • Explain the use cases of vSAN Direct
- • Describe how to setup stretched and two-node vSAN clusters
- • Explain the importance vSAN node hardware compatibility
- • Describe the use of VMware vSphere® Lifecycle Manager™ to automate driver and firmware installations
- • Detail vSAN resilience and data availability
- • Discuss the vSAN cluster backup methodology

Zielgruppe

Storage and virtual infrastructure consultants, solution architects, and administrators who are responsible for production support and administration of VMware vSAN [v7]

Inhalt

1 Course Introduction

- • Introductions and course logistics
- • Course objectives

2 Introduction to vSAN

- • Describe vSAN architecture
- • Describe the vSAN software components: CLOM, DOM, LSOM, CMMDS, and RDT
- • Identify vSAN objects and components
- • Describe the advantages of object-based storage
- • Describe the difference between All-Flash and Hybrid vSAN architecture
- • Explain the key features and use cases for vSAN
- • Discuss the vSAN integration and compatibility with other VMware technologies

3 Planning a vSAN Cluster

- • Identify requirements and planning considerations for vSAN clusters
- • Apply vSAN cluster planning and deployment best practices
- • Determine and plan for storage consumption by data growth and failure tolerance
- • Design vSAN hosts for operational needs
- • Identify vSAN networking features and requirements
- • Describe ways of controlling traffic in a vSAN environment
- • Recognize best practices for vSAN network configurations

4 Deploying a vSAN Cluster

- • 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 Life Cycle Manager to perform upgrades
- • Deploy and configure a vSAN Cluster using Cluster Quickstart wizard
- • Manually configure a vSAN Cluster using vSphere Client
- • Explain and configure vSAN fault domains
- • Using vSphere HA with vSAN
- • Understand vSAN Cluster maintenance capabilities
- • Describe the difference between implicit and explicit fault domains
- • Create explicit fault domains

5 vSAN Storage Policies

- • Describe a vSAN Object
- • Describe how objects are split into components
- • Explain the purpose of witness components
- • Explain how vSAN stores large objects
- • View object and component placement on the vSAN Datastore
- • Explain how storage policies work with vSAN
- • Define and create a virtual machine storage policy
- • Apply and modify virtual machine storage policies
- • Change virtual machine storage policies dynamically
- • Identify virtual machine storage policy compliance status

6 vSAN Resilience and Data Availability

- • 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

7 Configuring vSAN Storage Space Efficiency

- • 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

Kurstermine

Auf Anfrage. Bitte kontaktieren Sie uns

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.