

# **Enterprise Computing Solutions - Education Services**

# **TRAINING OFFERING**

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# VMware vSAN: Plan and Deploy [V7]

CODE: LÄNGE: PREIS:

VMW VSANPD7 16 Hours (2 Tage) €1,380.00

## **Description**

This two-day, hands-on training course provides you with the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. In this course, you are taught the many considerations that the vSAN configuration has on the initial planning of the vSAN datastore. You also manually configure a vSAN cluster.

#### Lernziel

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

- · Explain the key features and use cases for vSAN
- Detail the underlying vSAN architecture and components
- Describe the different vSAN deployment options
- Detail vSAN cluster requirements and considerations
- Apply recommended vSAN design considerations and capacity sizing practices
- Explain the influence of vSAN objects and components on the initial cluster plan
- Determine and plan for storage consumption by data growth and failure tolerance
- · Design vSAN hosts for operational needs
- Explain Maintenance Mode use and its impacts on vSAN
- · Apply best practices for vSAN network configurations
- Manually configure a vSAN cluster using VMware vSphere® Client™
- Explain and configure vSAN fault domains
- Understand and apply vSAN storage policies
- · Define encryption in the vSAN cluster
- Describe the architecture and use cases for stretched clusters
- · Configure a stretched cluster
- · Understand the steps involved in creating the vSAN iSCSI target services

## Zielgruppe

Experienced VMware vSphere® administrators

#### Voraussetzungen

You should have the following understanding or knowledge:

- · Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage course
- Knowledge of basic storage concepts
- Experience using vSphere Client to perform administrative tasks on vSphere clusters

#### Inhalt

- 1 Course Introduction
- · Introductions and course logistics
- Course objectives
- 2 Introduction to vSAN
- · Describe vSAN architecture
- 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
- · Identify vSAN objects and components

- · 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

#### 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
- Deploy and configure a vSAN cluster using the Cluster QuickStart wizard
- · Manually configure a vSAN cluster using vSphere Client
- · Explain and configure vSAN fault domains
- Using VMware vSphere® High Availability with vSAN
- Understand vSAN cluster maintenance capabilities
- Describe the difference between implicit and explicit fault domains
- · Create explicit fault domains

5 vSAN Storage Policies

- Explain how storage policies work with vSAN
- Explain the role of storage policies in planning a vSAN cluster
- · Define and create virtual machine storage policies
- · Apply and modify virtual machine storage policies
- Change virtual machine storage policies dynamically
- · Identify virtual machine storage policy compliance status

6 Introduction to Advanced vSAN Configurations

- · Define and configure compression and deduplication in the vSAN cluster
- Define and configure encryption in the vSAN cluster
- Understand the remote vSAN datastore topology
- Identify the operations involved in managing the remote vSAN datastore
- · Configure the vSAN iSCSI target service

7 vSAN Stretched and Two-Node Clusters

- Describe the architecture and use cases for stretched clusters
- Detail the deployment and replacement of a vSAN witness node
- Describe the architecture and use cases for two-node clusters
- Explain the benefits of vSphere HA and VMware Site Recovery Manager™ in a vSAN stretched cluster
- Explain storage policies for vSAN stretched cluster

# 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.