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)	€1,690.00

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.