



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware vSAN: Deploy and Manage [V6.6]

CODE:	LENGTH:	PRICE:
VM-VSAN-DM-V6.6	24 Hours (3 days)	\$2,550.00

Description

In this three-day course, you will focus on deploying and managing a software-defined storage solution with VMware vSAN™ 6.6. You will learn how vSAN functions as an important component in the VMware software-defined data center. You will gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Objectives

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

- Describe the vSAN architecture
- Identify vSAN features and use cases
- Configure vSAN networking components
- Configure a vSAN cluster
- Deploy virtual machines on a vSAN datastore
- Configure virtual machine storage policies
- Perform ongoing vSAN management tasks
- Outline the tasks for upgrading to vSAN 6.6
- Configure vSAN encryption
- Control vSAN resynchronization tasks
- Create and manage nested fault domains
- Use the vSAN health service to monitor health and performance
- Configure a stretched cluster and observe failover scenarios
- Describe vSAN interoperability with VMware vSphere® features and other products
- Plan and design a vSAN cluster

Audience

Storage and virtual infrastructure administrators who want to use software-defined storage with vSAN

Prerequisites

This course requires completion of one of the following prerequisites:

- Storage administration experience on block or file storage devices
 - Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.5] course
- Experience working at the command line is helpful.

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

- 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 [V6.5] course before enrolling in VMware vSAN: Deploy and Manage.

Programme

- Course Introduction**
 - Introductions and course logistics
 - Course objectives
 - Describe the software-defined data center
- Storage Fundamentals**
 - Define common storage technologies
 - Identify characteristics of storage devices: magnetic and flash-based devices
 - Identify and explain various types of storage architectures
 - Identify SAN performance factors
- Introduction to vSAN**
 - Describe the vSAN architecture and components
 - Describe the differences between the vSAN hybrid and all-flash architectures
 - Describe the space-efficiency features of vSAN
- vSAN Configuration**
 - Identify physical network configuration requirements
 - Configure vSAN networking
 - Configure a vSAN cluster
 - Test and validate the vSAN configuration and functionality
- Managing and Operating vSAN**
 - Manage hardware storage devices
 - Manage hardware device failures
 - Identify vCenter Server alarms for vSAN events
 - Configure fault domains
 - Upgrade to vSAN 6.6
- Stretched Clusters and Two-Node Clusters**
 - Describe the architecture for stretched clusters and two-node clusters
 - Create a stretched cluster using a two-node configuration
 - Configure VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™ for a stretched cluster
 - Demonstrate stretched cluster failover scenarios
- Monitoring and Troubleshooting vSAN**
 - Use vSphere Web Client to detect issues
 - Use the vSAN health service to monitor health and performance
 - Monitor vSAN with VMware vRealize® Operations Manager™
 - Use ESXi commands to monitor the vSAN environment
 - Monitor vSAN with Ruby vSphere Console
- Designing a vSAN Deployment**
 - Understand vSAN design considerations
 - Plan and design vSAN clusters
 - Identify the design and sizing tools for vSAN
 - Describe vSAN use cases
- Interoperability with vSphere Features**
 - Identify vSphere features and VMware products that interoperate with vSAN
 - Describe how vSAN interoperates with third-party products and solutions

Session Dates

On request. Please [contact us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)