



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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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

<b>Course Introduction</b> <ul style="list-style-type: none"><li>• Introductions and course logistics</li><li>• Course objectives</li><li>• Describe the software-defined data center</li></ul>	<b>Storage Fundamentals</b> <ul style="list-style-type: none"><li>• Define common storage technologies</li><li>• Identify characteristics of storage devices: magnetic and flash-based devices</li><li>• Identify and explain various types of storage architectures</li><li>• Identify SAN performance factors</li></ul>
<b>Introduction to vSAN</b> <ul style="list-style-type: none"><li>• Describe the vSAN architecture and components</li><li>• Describe the differences between the vSAN hybrid and all-flash architectures</li><li>• Describe the space-efficiency features of vSAN</li></ul>	<b>vSAN Policies and Virtual Machines</b> <ul style="list-style-type: none"><li>• Explain how storage policies work with vSAN</li><li>• Define and create a virtual machine storage policy</li><li>• Apply and modify virtual machine storage policies</li><li>• Discuss the vsanSparse snapshot format</li><li>• Explain the considerations for vsanSparse snapshots</li></ul>
<b>vSAN Configuration</b> <ul style="list-style-type: none"><li>• Identify physical network configuration requirements</li><li>• Configure vSAN networking</li><li>• Configure a vSAN cluster</li><li>• Test and validate the vSAN configuration and functionality</li></ul>	
<b>Managing and Operating vSAN</b> <ul style="list-style-type: none"><li>• Manage hardware storage devices</li><li>• Manage hardware device failures</li><li>• Identify vCenter Server alarms for vSAN events</li><li>• Configure fault domains</li><li>• Upgrade to vSAN 6.6</li></ul>	
<b>Stretched Clusters and Two-Node Clusters</b> <ul style="list-style-type: none"><li>• Describe the architecture for stretched clusters and two-node clusters</li><li>• Create a stretched cluster using a two-node configuration</li><li>• Configure VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™ for a stretched cluster</li><li>• Demonstrate stretched cluster failover scenarios</li></ul>	
<b>Monitoring and Troubleshooting vSAN</b> <ul style="list-style-type: none"><li>• Use vSphere Web Client to detect issues</li><li>• Use the vSAN health service to monitor health and performance</li><li>• Monitor vSAN with VMware vRealize® Operations Manager™</li><li>• Use ESXi commands to monitor the vSAN environment</li><li>• Monitor vSAN with Ruby vSphere Console</li></ul>	
<b>Interoperability with vSphere Features</b> <ul style="list-style-type: none"><li>• Identify vSphere features and VMware products that interoperate with vSAN</li><li>• Describe how vSAN interoperates with third-party products and solutions</li></ul>	<b>Designing a vSAN Deployment</b> <ul style="list-style-type: none"><li>• Understand vSAN design considerations</li><li>• Plan and design vSAN clusters</li><li>• Identify the design and sizing tools for vSAN</li><li>• Describe vSAN use cases</li></ul>

## Session Dates

On request. Please [Contact Us](#)

## Additional Information

This training is also available as onsite training. Please contact us to find out more.