

VMware vSAN: Deploy and Manage [V6.7]

Course Overview

In this three-day course, you focus on deploying and managing a software-defined storage solution with VMware vSAN™ 6.7. You learn how vSAN functions as an important component in the VMware software-defined data center. You gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Duration

3 Days

Course Outline

Students will complete the following modules.

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives
- Describe the software-defined data center

Module 2: 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

Module 3: vSAN Configuration

- Identify physical network configuration requirements
- Configure vSAN networking
- Configure a vSAN cluster
- Test and validate the vSAN configuration and functionality

Module 4: vSAN Policies and Virtual Machines

- Explain how storage policies work with vSAN
- Define and create a virtual machine storage policy
- Apply and modify virtual machine storage policies
- Discuss the vsanSparse snapshot format
- Explain the considerations for vsanSparse snapshots

Module 5: 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 6.7

Module 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

Our credentials



Module 7: 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

Audience

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

Pre-Requisites

This course requires meeting 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 [V6.7] 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® Client
- Create and manage VMware vCenter Server® objects, such as data centers, clusters, hosts, and virtual machines
- Create and modify a standard switch
- Create and modify a distributed 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 these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage [V6.7] course before enrolling in VMware vSAN: Deploy and Manage.

Learning Outcomes

By actively participating in this course, you will learn about the following:

- 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 6.7
- Configure vSAN encryption
- Control vSAN resynchronization tasks
- Create and manage nested fault domains
- Use the vSAN health service to monitor health and performance

Course Outline

- Configure a stretched cluster and observe failover scenarios
- Describe vSAN interoperability with VMware vSphere® features and other products
- Plan and design a vSAN cluster

Partner Information



**AUTHORIZED
TRAINING RESELLER**