Course Overview
In this three-day course, you will focus on deploying and managing a software-defined storage solution with VMware Virtual SAN™ 6.2. You will learn how Virtual SAN functions as an important component in the VMware software-defined data center. You will gain practical experience with Virtual SAN concepts through the completion of hands-on lab exercises.

Course Objectives
By the end of the course, you should be able to meet the following objectives:
- Describe the Virtual SAN architecture
- Identify Virtual SAN features and use cases
- Configure Virtual SAN networking components
- Configure a Virtual SAN cluster
- Deploy virtual machines on a Virtual SAN datastore
- Configure virtual machine storage policies
- Perform ongoing Virtual SAN management tasks
- Outline the tasks for upgrading to Virtual SAN 6.2
- Use the Virtual SAN health service to monitor health and performance
- Monitor Virtual SAN with VMware ESXi™ commands and the Ruby vSphere Console
- Configure a stretched cluster and observe failover scenarios
- Describe Virtual SAN interoperability with VMware vSphere® and other products
- Plan and design a Virtual SAN cluster

Target Audience
Storage and virtual infrastructure administrators who want to use software-defined storage with Virtual SAN

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] course

Experience with 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 an 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] course before enrolling in VMware Virtual SAN: Deploy and Manage.

Certifications
No certifications are tied to this course.

Course Delivery Options
• Classroom
• Live Online
• On Demand
• Onsite

Product Alignment
• ESXi 6.0 update 2
• vCenter Server 6.0 update 2
• Virtual SAN 6.2
Course Modules

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

2 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

3 Introduction to Virtual SAN
   - Describe the Virtual SAN architecture and components
   - Describe the differences between the Virtual SAN hybrid and all-flash architectures
   - Describe the space-efficiency features of Virtual SAN

4 Virtual SAN Configuration
   - Identify physical network configuration requirements
   - Configure Virtual SAN networking
   - Configure a Virtual SAN cluster
   - Test and validate the Virtual SAN configuration and functionality

5 Virtual SAN Policies and Virtual Machines
   - Explain how storage policies work with Virtual SAN
   - 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

6 Managing and Operating Virtual SAN
   - Manage hardware storage devices
   - Manage hardware device failures
   - Identify vCenter Server alarms for Virtual SAN events
   - Configure fault domains
   - Upgrade to Virtual SAN 6.2

7 Monitoring and Troubleshooting Virtual SAN
   - Use vSphere Web Client to detect issues
   - Use the Virtual SAN health service to monitor health and performance
   - Monitor Virtual SAN with VMware vRealize Operations Manager™
   - Use ESXi commands to monitor the Virtual SAN environment
   - Monitor Virtual SAN with Ruby vSphere Console and Virtual SAN Observer

8 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

9 Interoperability with vSphere Features
   - Identify vSphere features and VMware products that interoperate with Virtual SAN
   - Describe how Virtual SAN interoparates with third-party products and solutions

10 Designing a Virtual SAN Deployment
    - Understand Virtual SAN design considerations
    - Plan and design Virtual SAN clusters
    - Identify the design and sizing tools for Virtual SAN
    - Describe Virtual SAN use cases

Contact
If you have questions or need help registering for this course, click here.