

# VMware Virtual SAN: Deploy and Manage

## Delivery Methods

- Instructor-led training
- Live-online
- [Onsite training](#)

## Course Duration

- Two (2) days of instructor-led classroom training
- 55% lecture, 45% hands-on lab

## Target Audience

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

## Course Suitability

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Administrator | <input type="checkbox"/> Expert                  |
| <input type="checkbox"/> Engineer                 | <input type="checkbox"/> Advanced                |
| <input type="checkbox"/> Architect                | <input checked="" type="checkbox"/> Professional |
|   | <input type="checkbox"/> Fundamentals            |

## Prerequisites

- Storage administration experience on block or file storage devices
- Understanding of concepts presented in the VMware vSphere®: Install, Configure, Manage course

## Certifications

For more information, go to [VMware Certification](#).

## Pricing

Contact your VMware representative or a VMware® Authorized Training Center™ for pricing information.

## More Information

Courses are conveniently scheduled around the world. Go to <http://www.vmware.com/education> to find the class that is right for you.



## Course Overview

This training course focuses on deploying and managing a software-defined storage solution with VMware® Virtual SAN™ 5.5. This course looks at how Virtual SAN is used as an important component in the VMware® software-defined data center. The course is based on VMware® ESXi™ 5.5 and VMware® vCenter Server™ 5.5. For additional course options, go to <http://www.vmware.com/education>.

## Course Objectives

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

- Define the key components of a software-defined data center
- Identify benefits of software-defined storage solutions
- Compare and contrast disk types and storage technologies
- Explain file, block, and object-oriented storage
- Identify Virtual SAN requirements, use cases, and architecture components
- Plan and design a Virtual SAN deployment
- Configure Virtual SAN clusters
- Identify benefits of storage policy-based management
- Scale a Virtual SAN deployment based on storage needs
- Monitor Virtual SAN
- Troubleshoot Virtual SAN
- Identify the integration of Virtual SAN with the VMware product portfolio

## Course Modules

<p><b>1 Course Introduction</b></p> <ul style="list-style-type: none"> <li>• Introductions and course logistics</li> <li>• Course objectives</li> <li>• Course outline</li> </ul>	<p><b>5 Configuring Networks and Clusters</b></p> <ul style="list-style-type: none"> <li>• Configure a Virtual SAN network</li> <li>• Configure a Virtual SAN cluster</li> </ul>
<p><b>2 Software-Defined Data Center</b></p> <ul style="list-style-type: none"> <li>• Compare and contrast physical and virtual storage architectures</li> <li>• Compare and contrast a traditional data center and a software-defined data center</li> <li>• Identify benefits of the software-defined data center</li> <li>• Describe a network virtualization solution</li> <li>• Describe the role of a cloud management platform</li> </ul>	<p><b>6 Storage Policy-Based Management</b></p> <ul style="list-style-type: none"> <li>• Define the purpose of virtual machine storage policies</li> <li>• Apply virtual machine storage policies</li> <li>• Deploy virtual machines to Virtual SAN</li> <li>• Modify virtual machine storage policies</li> </ul>
<p><b>3 Storage Fundamentals Overview</b></p> <ul style="list-style-type: none"> <li>• Define common storage terminology</li> <li>• Identify common SAN architectures</li> <li>• Identify characteristics of hard-disk drives and solid-state disk drives</li> <li>• Explain file, block, and object-oriented storage architectures</li> <li>• Contrast local, centralized, and distributed storage architectures</li> </ul>	<p><b>7 Managing and Monitoring</b></p> <ul style="list-style-type: none"> <li>• Managing a cluster enabled using Virtual SAN</li> <li>• Identify failure scenarios and responses</li> <li>• Monitor Virtual SAN with vCenter Server alarms</li> <li>• Troubleshoot Virtual SAN with ESXCLI</li> <li>• Troubleshoot Virtual SAN with RVC</li> <li>• Use the Virtual SAN observer</li> </ul>
<p><b>4 Architecture and Planning</b></p> <ul style="list-style-type: none"> <li>• Define Virtual SAN architecture</li> <li>• Identify Virtual SAN capabilities</li> <li>• Identify Virtual SAN use cases</li> <li>• Define Virtual SAN network requirements</li> <li>• Identify Virtual SAN objects and components</li> <li>• Plan a Virtual SAN deployment</li> </ul>	<p><b>8 Integration</b></p> <ul style="list-style-type: none"> <li>• VMware vSphere® Data Protection™</li> <li>• VMware vSphere® Replication</li> <li>• VMware® vCenter™ Operations Manager™</li> <li>• VMware® vCenter™ Log Insight™</li> <li>• VMware® vCenter™ Site Recovery Manager™</li> <li>• VMware Horizon View™</li> <li>• VMware vCloud® Automation Center™</li> <li>• OpenStack</li> </ul>



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