

VMware vSAN: Troubleshooting

COURSE DETAILS

Course Code:	VM-vSANT
Delivery Type:	Instructor-Led
Duration:	2 days

PREREQUISITES

Before taking this course, students should take the following courses or have equivalent knowledge and experience:

- VMware vSphere: Install, Configure, Manage
- VMware vSAN: Plan and Deploy
- VMware vSAN: Management and Operations

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

- Use VMware vSphere® Client™ for common operations
 - Create and manage VMware vCenter Server® objects, such as data centers, clusters, hosts, and virtual machines
 - Create and modify a standard switch
 - Modify a distributed switch
 - 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® and VMware vSphere® Storage vMotion®
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COURSE CONTENT

In this two-day course, you focus on learning the tools and skills necessary to troubleshoot VMware vSAN™ 7 implementations. You gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises.

COURSE OBJECTIVES

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

- Describe the architectural components of vSAN and their roles
 - Explain how the components interact with each other
 - Explain the differences between object and component states
 - Describe how to use Skyline Health to investigate and help determine failure conditions
 - Explain how to use the command-line tools to help determine failure conditions
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COURSE OUTLINE

1 Course Introduction

- Introductions and course logistics
 - Course objectives
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2 vSAN Architecture

- Describe the vSAN architecture and components
- Describe the policy-driven, object-based vSAN storage environment
- Describe the CLOM, DOM, LSOM, CMMDS, and RDT vSAN software components
- Explain the relationship between objects and components
- Determine how specific storage policies affect components
- Describe component placement

3 Troubleshooting Methodology

- Use a structured approach to solve configuration and operational problems
- Apply troubleshooting methodology to logically diagnose faults and optimize troubleshooting efficiency

4 Troubleshooting Tools

- Discuss VMware Skyline Health and the associated service
 - Describe the use of VMware Skyline Health to identify and correct problems in VMware vSAN
 - Apply information presented by vSAN Health online towards problem-solving
 - Use vsantop to view vSAN performance metrics
 - Discuss the ways to run commands from the vCenter Server and ESXi command lines
 - Discuss the ways to access vSphere ESXi Shell
 - Use commands to view, configure, and manage your vSphere environment
 - Discuss the esxcli vsan namespace commands
 - Discuss when to use Ruby vSphere Console (RVC) commands
 - Explain which log files are useful for vSAN troubleshooting
 - Use log files to help troubleshoot vSAN problems
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WHO SHOULD ATTEND

Storage and virtual infrastructure administrators who want to be able to perform initial troubleshooting on their software-defined storage with vSAN