VMware vSAN: Troubleshooting Workshop

Course Overview

In this two-day course, you will focus on learning the tools and skills necessary to troubleshoot VMware vSAN™ 6.6 implementations. You will gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on challenge lab exercises.

Course Objectives

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

- Describe the software components
- Diagram how the components relate to each other
- Describe vSAN object placement
- Explain the differences between object states
- Explain how storage policies affect object states
- Predict how specific failures affect object states

Target Audience

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

Prerequisites

This course requires completion of one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.5] course
- Completion of the VMware vSAN: Deploy and Manage [V6.6] course or equivalent experience with vSAN
- Experience working with Linux command-line interfaces

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

- Use VMware vSphere® Web 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®

If you cannot complete all of these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage [V6.x] and VMware vSAN: Deploy and Manage [v6.x] courses before enrolling in VMware vSAN: Troubleshooting.

Certifications

No certifications are tied to this course.

Course Delivery Options

- Classroom
- Live Online
- [Onsite](#)

Product Alignment

- VMware ESXi™ 6.5
- vCenter Server 6.5
- vSAN 6.6

Course Modules

1   Course Introduction
- Introductions and course logistics
- Course objectives

2   vSAN Software Architecture
- Describe the vSAN architecture and components
- Describe the policy-driven, object-based vSAN storage environment
- Describe the vSAN software components: CLOM, DOM, LSOM, CMMDS, and RDT
- Explain the relationships between the 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
- Replace a failed witness appliance
- Discuss the ways to run various command-line tools
- Discuss the ways to access VMware vSphere® ESXi™ Shell
- Use commands to view, configure, and manage your VMware vSphere® environment
- Explain which log files are useful for vSAN troubleshooting
- Use log files to help troubleshoot vSAN problems
- Discuss the esxcli vsan namespace commands
- Discuss how to use Ruby vSphere Console commands

Contact

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

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