Course Outline

ADVANCEDTRAINING
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VMware vSAN Troubleshooting

General Description

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.

Outcomes

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

Audience Profile

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

Prerequisites

You must complete one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere®: Install, Configure, Managecourse
- Completion of the VMware vSAN: Deploy and Manage course or equivalent experience with vSAN
- Experience working with command-line interfaces

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®

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

Course Details

Course code: VMWVSAT
Duration: 2 days
Starting time: 9am
Finishing time: 4.30pm

Booking guidelines

Contact our learning consultants on 1300 86 87246 and we will assist you with your booking.

vmware®

☎ **1300 86 87246**
1300 TO TRAIN

For more information about any of our training courses, contact our Learning Consultants
on 1300 86 87246 or email us on info@advancedtraining.com.au
Visit us on the web at www.advancedtraining.com.au

Course Outline VMWVSAT
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➤ **1 Course Introduction**
  - Introductions and course logistics
  - Course objectives

➤ **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