VS70-TSH

VMware vSphere: Troubleshooting

40 horas | Data Center Virtualization | VMware

INTRODUÇÃO

Description

This five-day, hands-on training workshop provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 6.x environment. This workshop increases your skill and competence in using the command-line interface, VMware vSphere® Client™, VMware vRealize® Log Insight™, and other tools to analyze and solve problems.

OBJETIVO DO CURSO

Objectives

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

• Use vSphere Client, the command-line interface, and logs to diagnose and resolve problems in the vSphere environment
• Introduce troubleshooting principles and procedures
• Use VMware vSphere® Command-Line Interface to diagnose and resolve problems in the vSphere environment
• Troubleshoot networking problems and recover from these problems
• Analyze storage failure scenarios and resolve the problems
• Troubleshoot vSphere cluster failure scenarios and analyze possible causes
• Diagnose common VMware vSphere® High Availability problems and provide solutions
• Troubleshoot problems related to virtual machine migration (VMware vSphere® vMotion®), and improve resource use (VMware vSphere® Distributed Resource Scheduler™)
• Troubleshoot VMware vCenter Server® problems
• Identify VMware ESXi™ host problems, analyze failure scenarios, and correct them
• Troubleshoot faulty virtual machines, including installation problems, snapshot problems, and connection problems.

PÚBLICO-ALVO

Intended audience

• System administrators
• System integrators

PRÉ-REQUISITOS

Prerequisites

This course requires completion of one of the following prerequisites:

- VMware Certified Professional 6.5 – Data Center Virtualization (VCP6.5-DCV)
- VMware vSphere: Fast Track
- VMware vSphere: Install, Configure, Manage
- Equivalent knowledge and administration experience with ESXi and vCenter Server

CONTEÚDO PROGRAMÁTICO

COURSE OUTLINE

1 Course Introduction
• Introductions and course logistics
• Course objectives

2 Introduction to Troubleshooting
• Identify the effects of a system problema
• Define the scope of troubleshooting
• Use a structured approach
• Discuss the principles of troubleshooting
• Follow a logical troubleshooting procedure
• Examine examples of troubleshooting

3 Troubleshooting Tools
• Use command-line tools to identify and troubleshoot problems
• Use vSphere CLI
• Find and interpret important log files
• Use vRealize Log Insight for log aggregation, efficient log search, and problem analisis

4 Networking
• Identify the symptoms of network-related problems
• Analyze and resolve standard switch and distributed switch problems
• Analyze virtual machine connectivity problems and fix them
• Examine common management network connectivity problems and restore configurations
• Identify and prevent potential problems

5 Storage
• Troubleshoot storage (iSCSI, NFS, VMware vSphere® VMFS, VMware vSAN™, and VMware vSphere® Virtual Volumes™) connectivity problems
• Analyze storage-related logs
• Analyze hardware malfunction and software misconfiguration scenarios
• Identify multipathing-related problems, including permanent device loss (PDL) and all paths down (APD)
• Analyze possible causes, recover from faulty conditions, and restore storage visibility

6 vSphere Clusters
• Identify and recover from problems related to vSphere HA
• Analyze and troubleshoot various types of vSphere vMotion problems related to virtual machine migrations
• Discuss and recover from vSphere DRS problems to achieve proper function and balanced resource use
• Examine vSphere cluster failure scenarios and possible solutions

7 Virtual Machines
• Analyze and resolve common virtual machine snapshot problems
• Identify possible causes and resolve virtual machine power-on problems
• Troubleshoot virtual machine connection state problems
• Resolve problems seen during VMware Tools™ installations
• Examine failure scenarios and provide solutions

8 vCenter Server and ESXi
• Describe the vCenter Server and VMware Platform Services Controller™ architecture in vSphere 6.x

- Identify and resolve authentication problems
- Troubleshoot VMware Certificate Authority and certificate problems
- Analyze and fix problems with vCenter Server services
- Analyze and fix vCenter Server database problems
- Identify VMware vCenter Server® High Availability problems
- Examine ESXi host and vCenter Server failure scenarios and resolve the problems