
VMware vSphere: Troubleshooting Workshop

Duration: 5 Days **Course Code: VST** **Version: 7**

Overview:

This five-day, hands-on VMware Troubleshooting training course provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 7.x environment. This workshop increases your skill and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

Product Alignment: ESXi 7 vCenter Server 7

Remark: This training is also advised for students who want to be trained on vSphere v6.5 or v6.7.

Target Audience:

System administrators System integrators

Objectives:

- By the end of the course, you should be able to meet the following objectives:
 - Introduce troubleshooting principles and procedures
 - Practice Linux commands that aid in the troubleshooting process
 - Use command-line interfaces, log files, and the vSphere Client to diagnose and resolve problems in the vSphere environment
 - Explain the purpose of key vSphere log files
 - Identify networking problems based on reported symptoms, validate and troubleshoot the reported problem, identify the root cause and implement the appropriate resolution
 - Analyze storage failure scenarios using a logical troubleshooting methodology, identify the root cause, and apply the appropriate resolution to resolve the problem
 - Troubleshoot vSphere cluster failure scenarios and analyze possible causes
 - Diagnose common VMware vSphere® High Availability problems and provide solutions
 - Identify and validate VMware ESXi™ host and VMware vCenter Server® problems, analyze failure scenarios, and select the correct resolution
 - Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems
 - Troubleshoot performance problems with vSphere components
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Prerequisites:

- - VMware vSphere: Fast Track [V6.x] or [V7] - (VST)
 - VMware vSphere: Install, Configure, Manage [V6.x] or [V7] - (VSICM)
 - VMware vSphere: Optimize and Scale [V6.x] or [V7] - (VSOS)
 - Equivalent knowledge and administration experience with ESXi and vCenter Server

Experience in working with a command-line interface is highly recommended.

- VSFT - VMware vSphere: Fast Track
 - VSICM - VMware vSphere: Install, Configure, Manage
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Content:

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Introduction to Troubleshooting

- Define the scope of troubleshooting
- Use a structured approach to solve configuration and operational problems
- Apply a troubleshooting methodology to logically diagnose faults and improve troubleshooting efficiency

3 Troubleshooting Tools

- Use command-line tools (such as Linux commands, vSphere CLI, ESXCLI) to identify and troubleshoot

vSphere problems

- Identify important vSphere log files and interpret the log file contents

4 Troubleshooting Virtual Networking

- 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

5 Troubleshooting Storage

- Troubleshoot and resolve storage (iSCSI, NFS, and VMware vSphere® VMFS) connectivity and

configuration problems

- Analyze and resolve common VM snapshot problems

- Identify multipathing-related problems, including common causes of permanent device loss (PDL) and all

paths down (APD) events and resolve these problems

6 Troubleshooting vSphere Clusters

- Identify and recover from problems related to vSphere HA

- Analyze and resolve VMware vSphere® vMotion® configuration and operational problems

- Analyze and resolve common VMware vSphere® Distributed Resource Scheduler™ problems

7 Troubleshooting Virtual Machines

- Identify possible causes and resolve virtual machine power-on problems

- Troubleshoot virtual machine connection state problems

- Resolve problems seen during VMware Tools™ installations

8 Troubleshooting vCenter Server and ESXi

- Analyze and fix problems with vCenter Server services

- Analyze and fix vCenter Server database problems

- • Examine ESXi host and vCenter Server failure scenarios and resolve the problems

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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