



VMware vSphere : Troubleshooting [V7.0]

Duration: 5 Days Course Code: VST Version: 7.0

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.

This course aligns with the following products ESXi 7, vCenter Server 7

Please Note: This training is also suitable for students who want to be trained on vSphere v6.5 or v6.7.

Target Audience:

System integrators and administrators who need to troubleshoot a VMware vSphere environment

Objectives:

■ **After completing this course you should be able to;**

- 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:

Attendees should meet one of the following prerequisites or have equivalent knowledge and administration experience with ESXi and vCenter Server

- VSFT - VMware vSphere Fast Track Program [V7.0]
 - VSICM - VMware vSphere: Install, Configure, Manage [V7.0]
 - VSOS - VMware vSphere: Optimize & Scale [V7.0]
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Content:

Course Introduction

- Introductions and course logistics
- Course objectives

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

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

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

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

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

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

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 Email us on:

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