

VMware vSphere: Troubleshooting

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 7vCenter 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

Prerequisites:

- - VMware vSphere: Fast Track [V6.x] or [V7] - (VSFT)
 - 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

Content:

<p>1 Course Introduction</p> <ul style="list-style-type: none"> • Introductions and course logistics • Course objectives 	<p>4 Troubleshooting Virtual Networking</p> <ul style="list-style-type: none"> • Analyze and resolve standard switch and distributed switch problems • Analyze virtual machine connectivity problems and fix them 	<ul style="list-style-type: none"> • Identify and recover from problems related to vSphere HA • Analyze and resolve VMware vSphere® vMotion® configuration and operational problems
<p>2 Introduction to Troubleshooting</p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Examine common management network connectivity problems and restore configurations <p>5 Troubleshooting Storage</p> <ul style="list-style-type: none"> • Troubleshoot and resolve storage (iSCSI, NFS, and VMware vSphere® VMFS) connectivity and 	<ul style="list-style-type: none"> • Analyze and resolve common VMware vSphere® Distributed Resource Scheduler™ problems <p>7 Troubleshooting Virtual Machines</p> <ul style="list-style-type: none"> • Identify possible causes and resolve virtual machine power-on problems • Troubleshoot virtual machine connection state problems
<p>3 Troubleshooting Tools</p> <ul style="list-style-type: none"> • 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 	<p>configuration problems</p> <ul style="list-style-type: none"> • 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 <p>6 Troubleshooting vSphere Clusters</p>	<ul style="list-style-type: none"> • Resolve problems seen during VMware Tools™ installations <p>8 Troubleshooting vCenter Server and ESXi</p> <ul style="list-style-type: none"> • 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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