Enterprise Computing Solutions - Education Services

# TRAINING OFFERING

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# VMware vSphere: Troubleshooting [V8]

| CODE: | LENGTH: | PRICE: |
|---|---|---|
| VMW_VSTS8 | 40 Hours (5 days) | €3,850.00 |

## Description

This five-day training course provides you with the knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 8 environment. This course increases your skill level and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

## Objectives

By the end of the course, you should be able to meet the following objectives:
• Introduce troubleshooting principles and procedures
• Use command-line interfaces, log files, and the vSphere Client to diagnose and resolve problems in the vSphere environment
• Explain the purpose of common vSphere log files
• Identify networking issues based on reported symptoms
• Validate and troubleshoot the reported networking issue
• Identify the root cause of networking issue
• Implement the appropriate resolution to recover from networking problems
• Analyze storage failure scenarios using a logical troubleshooting methodology
• identify the root cause of storage failure
• Apply the appropriate resolution to resolve storage failure problems
• Troubleshoot vSphere cluster failure scenarios
• Analyze possible vSphere cluster failure causes
• Diagnose common VMware vSphere® High Availability problems and provide solutions
• Identify and validate VMware ESXiTM host and VMware vCenter® problems
• Analyze failure scenarios of ESXi host and vCenter problems
• Select the correct resolution for the failure of ESXi host and vCenter problems
• Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems
• Troubleshoot performance problems with vSphere components

## Audience

System architects and system administrators

## Prerequisites

This course requires completion of one the following courses:
• VMware vSphere: Fast Track
• VMware vSphere: Install, Configure, Manage
• VMware vSphere: Operate, Scale and Secure
The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:
• Install and configure ESXi
• Install vCenter
•
Create vCenter Server objects, such as data centers and folders
• Create and modify a standard switch
• Create and modify a distributed switch
• Connect an ESXi host to NAS, iSCSI, or Fibre Channel storage
• Create a VMware vSphere
® VMFS datastore
• Modify a virtual machine’s hardware

• Migrate a virtual machine with VMware vSphere
® vMotion® and VMware vSphere® Storage vMotion®
•
Configure and manage a VMware vSphere® Distributed Resource SchedulerTM cluster
• Configure and manage a VMware vSphere HA cluster
• Basic knowledge of command line tools like ESXCLI, DCLI, and PowerCLI
If you cannot complete these tasks, VMware recommends that you take the VMware vSphere: Install, Configure, Manage [V8] course instead.

## Programme

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 troubleshooting methodology to logically diagnose faults and improve troubleshooting efficiency
3 Troubleshooting Tools
• Discuss the various methods to run commands
• Discuss the various ways to access ESXi Shell
• Use commands to view, configure, and manage your vSphere components
• Use the vSphere CLI
• Use ESXCLI commands from the vSphere CLI
• Use Data Center CLI commands
• Identify the best tool for command-line interface troubleshooting
• Identify important log files for troubleshooting vCenter Server and ESXi
• Describe the benefits and capabilities of VMware SkylineTM
• Explain how VMware Skyline works
• Describe VMware SkylineTM Health
• Describe VMware Skyline AdvisorTM
4 Troubleshooting Virtual Networking
• Analyze and troubleshoot standard switch problems
• Analyze and troubleshoot virtual machine connectivity problems
• Analyze and troubleshoot management network problems
• Analyze and troubleshoot distributed switch problems
5 Troubleshooting Storage
• Discuss the vSphere storage architecture
• Identify the possible causes of problems in the various types of datastores
• Analyze the common storage connectivity and configuration problems
• Discuss the possible storage problems causes
• Solve the storage connectivity problems, correct misconfigurations, and restore LUN visibility
• Review vSphere storage architecture and functionality necessary to troubleshoot storage problems
• Use ESXi and Linux commands to troubleshoot storage problems
• Analyze log file entries to identify the root cause of storage problems
• Investigate ESXi storage issues
• Troubleshoot VM snapshots
• Troubleshoot storage performance problems
• Review multipathing
• Identify the common causes of missing paths, including PDL and APD conditions
• Solve the missing path problems between hosts and storage devices
6 Troubleshooting vSphere Clusters
• Identify and troubleshoot vSphere HA problems
• Analyze and solve vSphere vMotion problems
• Diagnose and troubleshoot common vSphere DRS problems
7 Troubleshooting Virtual Machines
• Discuss virtual machine files and disk content IDs
• Identify, analyze, and solve virtual machine snapshot problems
• Troubleshoot virtual machine power-on problems
• Identify possible causes and troubleshoot virtual machine connection state problems
• Diagnose and recover from VMware Tools installation failures
8 Troubleshooting vCenter Server and ESXi
• Analyze and solve vCenter Server service problems
• Diagnose and troubleshoot vCenter Server database problems
• Use vCenter Server Appliance shell and the Bash shell to identify and solve problems
• Identify and troubleshoot ESXi host problems

## Further Information

Product Alignment
• VMware ESXi 8.0
• VMware vCenter Server 8.0

## Session Dates

| Date | Location | Time Zone | Language | Type | Guaranteed | PRICE |
|---|---|---|---|---|---|---|
| 01 Jan 0001 | | | English | MOC On Demand | | €3,850.00 |
| 14 Dec 2026 | Virtual Classroom (GMT / UTC) | GMT | English | Instructor Led Online | | €3,850.00 |

## Additional Information

This training is also available as onsite training. Please contact us to find out more.