

# VMware vSphere: Troubleshooting Workshop [v6.7] (VWVSTRB)

- **Formato do curso:** Live training
- **Preço:** 2950€
- **Nível:** Avançado
- **Duração:** 40 horas

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® Web Client, VMware vRealize® Log Insight™, and other tools to analyze and solve problems.

## Destinatários

- System administrators
- System integrators

## Pré-requisitos

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 \[V6.5\]](#)
- [VMware vSphere: Install, Configure, Manage \[V6.7\]](#)
- Equivalent knowledge and administration experience with ESXi and vCenter Server

Experience in working with a command-line interface is highly recommended, as is completion of [VMware vSphere: Optimize and Scale \[V6.7\]](#).

## Objetivos

- 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
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## Programa

### Course Introduction

- Introductions and course logistics
- Course objectives

### Introduction to Troubleshooting

- Identify the effects of a system problem
- Define the scope of troubleshooting
- Use a structured approach
- Discuss the principles of troubleshooting
- Follow a logical troubleshooting procedure
- Examine examples of troubleshooting

### 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 analysis

### 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

### 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 the faulty conditions, and restore storage visibility

### **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

### **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

### **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