



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# VMware vSphere: Advanced Troubleshooting Workshop [V6.7]

<b>CODE:</b>	<b>DURÉE:</b>	<b>PRIX H.T.:</b>
VMW_VATSW67	5 Jours	€3,750.00

## Description

This five-day, intensive hands-on training workshop provides you with advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 6.7 environment. This workshop is aimed at experienced system administrators and introduces methods and skills that use management command-line interfaces (CLIs) and VMware vSphere® Client™. This workshop focuses on investigating and resolving problems, analyzing log files to help you recognize log file entries that identify root causes, and configuring specific key vSphere features.

## Objectifs

By the end of the course, you should be able to meet the following objectives:

- Use the command-line interface, log files, and vSphere Client to diagnose and resolve problems in the vSphere environment
- Practice Linux commands that aid in the troubleshooting process
- Analyze vSphere log files and determine the root cause of specific problems
- Troubleshoot storage problems and apply the appropriate resolution to these problems
- Troubleshoot and resolve networking problems
- Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems
- Identify VMware ESXi™ host and VMware vCenter Server® problems, analyze failure scenarios or misconfigurations, and rectify them
- Troubleshoot performance problems with vSphere components and apply mitigations
- Configure and manage the vSphere infrastructure to improve availability and operational stability

## Audience

- Senior system administrators, experienced system administrators • Senior system integrators, experienced system integrators

## Prérequis

This course requires completion of one of the following prerequisites:

- VMware Certified Professional 6.5 – Data Center Virtualization (VCP6.5-DCV)
  - VMware vSphere: Install, Configure, Manage [V6.7] (with two years production experience)
  - VMware vSphere: Optimize and Scale [V6.7] • VMware vSphere: Troubleshooting Workshop [V6.7]
  - VMware vSphere: Fast Track [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].

## Programme

- 1 Course Introduction • Introductions and course logistics • Course objectives
- 2 Troubleshooting Tools
  - Identify the tools available for troubleshooting a vSphere environment • Explain the purpose of commonly used vSphere log files
  - Use Linux commands that will assist you with troubleshooting vSphere
  - Use the vim-cmd tool to manage hosts and virtual machines
- 3 Storage Troubleshooting
  - Review the 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 disk and storage issues
  - Troubleshoot virtual machine snapshots • Troubleshoot storage performance problems
  - Troubleshoot storage all paths down and permanent device loss conditions
  - Troubleshoot problems due to file locking on the ESXi host • Configuration task: Configure iSCSI multipathing

#### 4 Network Troubleshooting

- Review vSphere virtual switch architecture and functionality necessary to troubleshoot networking problems
- Use ESXi and Linux commands to troubleshoot networking problems
- Analyze log file entries to identify the root cause of networking problems • Recover from a management network failure
- Troubleshoot VMware vSphere® vMotion® migration problems • Configuration task: Modify network card options and drivers
- Configuration task: Migrate networking from a standard switch to a distributed switch
- Monitor the behavior of NIC teaming failover and load balancing • Use the command line to isolate and resolve networking failures

#### 5 System Troubleshooting

- Review virtual infrastructure architecture and functionality necessary to troubleshoot ESXi and vCenter Server problems
- Analyze log file entries to identify the root cause of virtual infrastructure problems
- Use the command line to manage and troubleshoot the vSphere virtual infrastructure • Analyze virtual machine CPU performance
- Troubleshoot ESXi host connection problems • Troubleshoot virtual machine power-on failures
- Troubleshoot vCenter Server connection problems
- Restart ESXi management agents and VMware vCenter® Server Appliance™ services from the command line
- Perform a file-based backup of vCenter Server Appliance • Resolve Solution User certificate problems

### **Dates de session**

Sur demande. [Merci de nous contacter](#)

### **Informations**

#### **Complémentaires**

Cette formation est également disponible sous forme de formation sur site. [Veuillez nous contacter pour en savoir plus.](#)