

# VMware vSphere: Troubleshooting [V7] Training

Duration: 5 Days

## Course Content:

VMware vSphere dedicated, and specified troubleshooting workshop covers the skills and knowledge to troubleshoot the VMware quickly and accurately. The lecture module is drafted to make you better understand the decoding of the troubleshooting interface. The module is designed to make you understand the VMware vSphere thoroughly concerning the enterprise requirements. Troubleshoot analysis tools are made familiar by teaching the inside operation of each of them in detail. Each tool is taught to operate and manage by providing live illustrations.

By taking the VMware vSphere Troubleshooting training, you get hands-on experience at VMware vSphere® Client, VMware vRealize® Log insight, and other tools to analyze and solve problems. After the successful completion of the course, you will be able to fix the issue in less time efficiently.

## Who should attend?

This course is intended for system administrators and system integrators.

## Prerequisites for this training

This course requires the completion of one of the following prerequisites:

- [VMware vSphere: Fast Track](#)
- [VMware vSphere: Install, Configure, and Manage](#)
- [VMware vSphere: Optimize and Scale](#)
- Equivalent knowledge and administration experience with ESXi and vCenter Server

Experience in working with a command-line interface is highly recommended.

## What you will learn

- Troubleshooting the defected machines covering installation difficulties, snapshot errors and other connection glitches.
- Identifying the VMware ESXi host threats, analyzing failure scenarios to correct accordingly.
- Troubleshooting problems for VMware vCenter Server®.
- Troubleshooting errors relevant to VMware vSphere® Distributed Resource Scheduler and VMware vSphere® vMotion®.
- Diagnosing the frequent VMware vSphere® High Availability technical problems and obtaining a proper solution for this.
- Troubleshooting the vSphere cluster failure scenarios and analyzing the possible causes for the same.
- Analyzing the storage failure scenarios and solving the problems.
- Introducing troubleshooting procedure and other principles.
- How to utilize the command-line interface and vSphere Client logs to resolve and diagnose errors in vSphere environment.
- Utilize VMware vSphere® Command-Line interfacing to resolve and diagnose problems in vSphere environment.

- Manage VM resource usage with resource pools
- Monitor and analyze key performance indicators for compute, storage, and networking resources for ESXi hosts
- Optimize the performance in the vSphere environment, including vCenter Server

### **Certification:**

Attending this course meets the training requirement to achieve the following certification:

- VMware Certified Professional - Data Center Virtualization (VCP-DCV)

Attending this course is also recommended if you aim to achieve the following certification:

- VMware Certified Advanced Professional - Data Center Virtualization (VCAP-DCV) Deploy

### **Curriculum**

#### **Module 1: Course Introduction**

- Introductions and course logistics
- Course objectives

#### **Module 2: 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

#### **Module 3: Troubleshooting Tools**

- Use command-line tools (such as ESXCLI) to identify and troubleshoot vSphere problems
- Identify important vSphere log files and interpret the log file contents
- Describe the benefits and capabilities of VMware Skyline
- Explain how VMware Skyline works
- Identify uses for Skyline Advisor

#### **Module 4: 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

#### **Module 5: Troubleshooting Storage**

- Troubleshoot and resolve storage (iSCSI, NFS, and VMware vSphere® VMFS) connectivity and configuration problems
- Analyze and resolve common VM snapshot problems
- Identify and resolve multipathing-related problems, including common causes of permanent device loss (PDL) and all paths down (APD) event problems

#### **Module 6: 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

**Module 7: Troubleshooting Virtual Machines**

- 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

**Module 8: Troubleshooting vCenter Server and ESXi**

- Analyze and fix problems with vCenter Server services
- Diagnose and troubleshoot vCenter Server database problems
- Examine ESXi host and vCenter Server failure scenarios and resolve the problems

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*For any query Contact Us – MicrotekLearning*

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