

VMware vSphere: Troubleshooting Workshop 6.7 (VMTW-6.5)

Modality: Virtual Classroom

Duration: 5 Days

SATV Value:

CLC:

NATU:

SUBSCRIPTION: No

About this course:

The VMware vSphere course is a five-day training course, with which you learn about the new complex features and how to troubleshoot the incompetence of the VMware vCenter Server® 6x environment.

This course comprises of real-world scenarios, hands-on experiments, and interactive lectures for you to learn in a better manner. The course covers the VMware vSphere® Client™, VMware vRealize® Log Insight™, and other essential tools.

Course Objective:

After completing the course, students shall be able to:

- Make complete use of vSphere and the command line interface to identify and solve vulnerabilities in the vSphere environment
- List and explain the principles and procedures
- Make complete use of VMware vSphere and the command line interface to identify and solve vulnerabilities in the vSphere environment
- Identify, troubleshoot, and resolve network issues
- Implement and solve different cluster failure scenarios
- Identify common VMware vSphere® High Availability problems and formulate solutions
- Troubleshoot problems related to virtual machine migration (VMware vSphere® vMotion®), and improve resource use (VMware vSphere® Distributed Resource Scheduler™)
- Troubleshoot and solve VMware vCenter Server® issues
- Identify and resolve VMware ESXi™ host problems, and analyze failure scenarios

Audience:

The target audience for this course is:

- System administrators
- System integrators

Prerequisite:

Before enrolling for the course, we recommend you to complete at least one of the following:

- 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

Furthermore, the working experience of the command line interface will help you understand the concepts better, also VMware vSphere: Optimize and Scale [V6.7] training is mandatory.

Course Outline:

Course Introduction

- Introductions and course logistics
- Course objectives
- Describe the content of this course
- Gain a complete picture of the VMware certification system
- Familiarize yourself with the benefits of the VMware Education Learning Zone
- Identify additional resources

Introduction to Troubleshooting

- Identify the effects of a system problem
- Define the scope of troubleshooting
- Use a structured approach
- Understand 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 VMware vSphere® Management Assistant
- 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

- Understand 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