COURSE OVERVIEW – VMWARE VSPHERE: TROUBLESHOOTING WORKSHOP 6.7

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® ClientTM, VMware vRealize® Log InsightTM, and other tools to analyze and solve problems.

COURSE OBJECTIVES

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

- 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 SchedulerTM)
- Troubleshoot VMware vCenter Server® problems
- Identify VMware ESXiTM host problems, analyze failure scenarios, and correct them
- Troubleshoot faulty virtual machines, including installation problems, snapshot problems, and connection problems

TARGET AUDIENCE

- System administrators
- System integrators

PREREQUISITES

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].

CERTIFICATIONS

This course prepares you for the following certification:

• VMware Certified Professional 6.5 – Data Center Virtualization (VCP6.5-DCV)

COURSE DELIVERY OPTIONS

o Classroom
o Live Online
o Onsite

PRODUCT ALIGNMENT

o ESXi 6.7
o vCenter Server 6.7

Course Modules

1 Course Introduction

• Introductions and course logistics
• Course objectives

2 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

3 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

4 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 onfigurations
• Identify and prevent potential problems

5 Storage

• Troubleshoot storage (iSCSI, NFS, VMware vSphere® VMFS, VMware vSANTM, and VMware vSphere® Virtual VolumesTM) connectivity problems
• Analyze storage-related logs
• Analyze hardware malfunction and software misconfiguration scenarios
• Identify multi-pathing related problems, including permanent device loss (PDL) and all paths down (APD)
• Analyze possible causes, recover from faulty conditions, and restore storage visibility

6 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

7 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 ToolsTM installations
• Examine failure scenarios and provide solutions

8 vCenter Server and ESXi

• Describe the vCenter Server and VMware Platform Services ControllerTM 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

Contact If you have questions or need help registering for this course, click here