Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware vSphere: Troubleshooting [V8.0]

CODE:	LENGTH:	PRICE:
EDU-VMW-VSTRB8	40 Hours (5 days)	$4,625.00

Description

This five-day training course provides you with the knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 8 environment. This course increases your skill level and competence in using the command-line interface, VMware vSphere® ClientTM, log files, and other tools to analyze and solve problems.

Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Introduce troubleshooting principles and procedures
- Use command-line interfaces, log files, and the vSphere Client to diagnose and resolve problems in the vSphere environment
- Explain the purpose of common vSphere log files
- Identify networking issues based on reported symptoms
- Validate and troubleshoot the reported networking issue
- Identify the root cause of networking issue
- Implement the appropriate resolution to recover from networking problems
- Analyze storage failure scenarios using a logical troubleshooting methodology
- identify the root cause of storage failure
- Apply the appropriate resolution to resolve storage failure problems
- Troubleshoot vSphere cluster failure scenarios
- Analyze possible vSphere cluster failure causes
- Diagnose common VMware vSphere® High Availability problems and provide solutions
- Identify and validate VMware ESXiTM host and VMware vCenter® problems
- Analyze failure scenarios of ESXi host and vCenter problems
- Select the correct resolution for the failure of ESXi host and vCenter problems
- Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems
- Troubleshoot performance problems with vSphere components

Audience

The primary audience for this course is as follows:

- System architects and system administrators

Prerequisites

his course requires completion of one the following courses:

- VCP-DCV certification
- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Operate, Scale and Secure
- The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:
- Install and configure ESXi
- Install vCenter Server
- Create vCenter Server objects, such as data centers and folders
- Create and modify a standard switch
- Create and modify a distributed switch

- Connect an ESXi host to NAS, iSCSI, or Fibre Channel storage
- Create a VMware vSphere VMFS datastore
- Modify a virtual machine's hardware
- Migrate a virtual machine with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Configure and manage a VMware vSphere® Distributed Resource SchedulerTM cluster
- Configure and manage a VMware vSphere HA cluster
- Basic knowledge of command line tools like ESXCLI, DCLI, and PowerCLI
- If you cannot complete these tasks, VMware recommends that you take the VMware vSphere: Install, Configure, Manage [V8] course instead.

Program

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 troubleshooting methodology to logically diagnose faults and improve troubleshooting efficiency
Module 3: Troubleshooting Tools
• Discuss the various methods to run commands
• Discuss the various ways to access ESXi Shell
• Use commands to view, configure, and manage your vSphere components
• Use the vSphere CLI
• Use ESXCLI commands from the vSphere CLI
• Use Data Center CLI commands
• Identify the best tool for command-line interface troubleshooting
• Identify important log files for troubleshooting vCenter Server and ESXi
• Describe the benefits and capabilities of VMware SkylineTM
• Explain how VMware Skyline works
• Describe VMware SkylineTM Health
• Describe VMware Skyline AdvisorTM
Module 4: Troubleshooting Virtual Networking
• Analyze and troubleshoot standard switch problems
• Analyze and troubleshoot virtual machine connectivity problems
• Analyze and troubleshoot management network problems
• Analyze and troubleshoot distributed switch problems
Module 5: Troubleshooting Storage
• Discuss the vSphere storage architecture
• Identify the possible causes of problems in the various types of datastores
• Analyze the common storage connectivity and configuration problems
• Discuss the possible storage problems causes
• Solve the storage connectivity problems, correct misconfigurations, and restore LUN visibility
• Review 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 storage issues
• Troubleshoot VM snapshots
• Troubleshoot storage performance problems
• Review multipathing
• Identify the common causes of missing paths, including PDL and APD conditions
• Solve the missing path problems between hosts and storage devices
Module 6: Troubleshooting vSphere Clusters
• Identify and troubleshoot vSphere HA problems
• Analyze and solve vSphere vMotion problems
• Diagnose and troubleshoot common vSphere DRS problems
Module 7: Troubleshooting Virtual Machines
• Discuss virtual machine files and disk content IDs
• 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 solve vCenter Server service problems
• Diagnose and troubleshoot vCenter Server database problems
• Use vCenter Server Appliance shell and the Bash shell to identify and solve problems
• Identify and troubleshoot ESXi host problems

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.