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VMware vSphere Troubleshooting v8 Training

VMware Authorized Training · Applied Technology Academy

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® Client™, log files, and other tools to analyze and solve problems.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	**5 Days**	**2 years: System Admin**	**$145,259**	**Yes**

Course Overview

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

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Course Outline

- Course Introduction
- Introductions and course logistics
- Course objectives
- Introduction to Troubleshooting
- Define the scope of troubleshooting
- Use a structured approach to solve configuration and operational problems
- Apply troubleshooting methodology to diagnose faults and make troubleshooting efficient
- Troubleshooting Tools
- Identify the utilities and tools used to run commands
- Identify how to access the vSphere ESXi shell
- Run commands to view, configure, and manage vSphere components
- Use Standalone ESXCLI for troubleshooting
- Run ESXCLI commands from the Standalone ESXCLI tool
- Use Data Center CLI commands for troubleshooting
- Run commands to view, configure, and manage your vSphere components
- Identify the best tool to use for CLI troubleshooting
- Locate important log files
- Identify how to use log files in troubleshooting
- Describe the benefits and capabilities of VMware Skyline™
- Explain how VMware Skyline works at a high-level
- Identify the types of health information provided by Skyline™ Health
- Identify uses for VMware Skyline™ Advisor
- Describe the support bundle REST API
- Use the support bundle REST API
- 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
- Troubleshooting Storage
- Recognize components in the vSphere storage architecture
- Identify the possible causes of problems in the various types of datastores
- Analyze the common storage connectivity and configuration problems and discuss the possible causes

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- Resolve the storage connectivity problems, correct misconfigurations, and restore LUN visibility
- Analyze log file entries to identify the root cause of storage problems
- Use ESXi and Linux commands to troubleshoot storage problems
- Investigate ESXi storage issues
- Troubleshoot virtual machine snapshots
- Troubleshoot storage performance problems
- Recognize how multipathing works
- Identify the common causes of missing paths
- Resolve the missing path problems between hosts and storage devices
- Troubleshooting vSphere Clusters
- Identify and troubleshoot potential vSphere HA problems
- Analyze and solve vSphere potential vMotion problems
- Diagnose and troubleshoot potential vSphere DRS problems
- Troubleshooting Virtual Machines
- Describe virtual machine files
- Identify, analyze, and solve virtual machine snapshot problems
- Discuss virtual machine files and disk content IDs
- Troubleshoot virtual machine power-on problems
- Identify possible causes and troubleshoot virtual machine connection state problems
- Diagnose and recover from VMware Tools™ installation failures
- Troubleshooting vCenter Server and ESXi
- Analyze and resolve vCenter service problems
- Diagnose and troubleshoot vCenter database problems
- Use vCenter appliance shell and the Bash shell to identify and solve problems
- Identify and troubleshoot ESXi host problems

Intended Audience

System architects and system administrators

Prerequisites

This course requires completion of one the following courses:

- VCP-DCV certification
- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Operate, Scale and Secure

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Follow-On Courses

- Lean Six Sigma Training
- Lean Six Sigma Green Belt
- Lean Six Sigma Black Belt

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.