VMware vSphere: Troubleshooting [V8] Training

Duration: **5 Day**

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Overview

This **five-day expert-level course** provides the knowledge and skills to **troubleshoot VMware vSphere® 8 environments**. Participants will learn how to use **command-line tools (ESXCLI, DCLI, PowerCLI), vSphere Client™, log files, and VMware Skyline** to analyze and resolve issues.

Through **hands-on labs**, learners will troubleshoot real-world scenarios involving **networking, storage, clusters, virtual machines, vCenter, and ESXi**.

Product Alignment

- VMware ESXi 8.0
- VMware vCenter Server 8.0

Prerequisites

Completion of one of the following courses is required:

- **VMware vSphere: Fast Track**
- **VMware vSphere: Install, Configure, Manage**
- **VMware vSphere: Operate, Scale and Secure**

Additionally, participants should already be able to:

- Install ESXi and vCenter
- Configure standard and distributed switches
- Connect NAS, iSCSI, or Fibre Channel storage
- Create VMFS datastores
- Create, migrate, and snapshot VMs
- Configure HA and DRS clusters
- Use CLI tools such as ESXCLI, DCLI, and PowerCLI

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Who Should Attend

- System architects
- System administrators

What You Will Learn

By the end of this course, you will be able to:

- Apply structured troubleshooting methodology
- Use vSphere Client, CLI tools, and logs to resolve issues
- Understand vSphere log files from a troubleshooting perspective
- Leverage VMware Skyline for proactive health analysis
- Troubleshoot networking and storage issues
- Diagnose cluster failures including HA, DRS, and vMotion
- Resolve VM snapshot, migration, and power-on problems
- Identify and fix vCenter and ESXi issues
- Troubleshoot performance problems in vSphere environments

Outline

1. Course Introduction

- Objectives and logistics

2. Introduction to Troubleshooting

- Structured methodology for fault diagnosis

3. Troubleshooting Tools

- ESXCLI, DCLI, PowerCLI usage
- Accessing ESXi shell
- Log analysis
- VMware Skyline overview and Advisor

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4. Troubleshooting Virtual Networking

- Standard and distributed switch issues
- VM connectivity problems
- Management network troubleshooting

5. Troubleshooting Storage

- Storage architecture components
- Datastore visibility issues
- iSCSI and multipathing problems
- Snapshot and storage performance troubleshooting

6. Troubleshooting vSphere Clusters

- High Availability (HA) problems
- vMotion and DRS troubleshooting

7. Troubleshooting Virtual Machines

- Snapshot problems
- Power-on and connectivity issues
- VMware Tools installation failures

8. Troubleshooting vCenter and ESXi

- vCenter service and database problems
- Using appliance shell and Bash for troubleshooting
- ESXi host troubleshooting