

TITLE	DURATION
<b>VMware vSphere: Troubleshooting</b>	32 H

**Overview** This 4-day, lab-intensive course focuses on providing system administrators with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphereT virtual infrastructure. In this course, you will spend most of the time diagnosing and rectifying configuration problems created on VMware® ESX/ESXi hosts and VMware vCenterT Server systems.

- Objectives**
- Use the VMware vSphere Client and service console commands to configure or diagnose and rectify problems on ESX
  - Use the vSphere Client and the VMware vSphere Management Assistant (vMA) appliance to configure or diagnose and rectify problems on ESX and ESXi hosts
  - Use ESXi technical support mode to diagnose and rectify problems on ESXi
  - Create and use a network sniffer to capture and display virtual switch network traffic
  - Use the vSphere Client and command-line tools to troubleshoot VMware VMotionT, VMware Storage VMotion, VMware High Availability, VMware Distributed Resource Scheduler, and virtual machine power-on problems

**Prerequisites** This is an advanced course. Prerequisites include the completion of one of the following:

- VMware vSphere: Install, Configure, Manage, VMware vSphere: Manage Availability , VMware vSphere: Manage Scalability
- Completion of vSphere: Fast Track
- Equivalent knowledge and administration experience with ESX/ESXi and vCenter Server

**Outline** **ESXi Command-Line Troubleshooting Methods**

- Install and use vMA
- Learn common VMware vSphere Command-Line Interface commands and syntax
- Configure ESXi technical support mode and SSH access

## **ESX, ESXi, and vCenter Server Log Files**

- View ESX, ESXi, and vCenter Server log files
- Configure a centralized ESX/ESXi log host

## **Network Troubleshooting**

- Identify and configure vNetwork components
- Configure and use a network traffic sniffer

## **Management Troubleshooting**

- Troubleshoot vSphere management components

## **Storage Troubleshooting**

- View, configure, and diagnose storage access problems
- Configure iSCSI authentication and digests

## **VMotion Troubleshooting**

- Troubleshoot VMotion and Storage VMotion errors

## **VMware HA Cluster Troubleshooting**

- Troubleshoot errors with slot calculations, admission control, and host monitoring

## **DRS Cluster Troubleshooting**

- Troubleshoot errors with shares, pools, and limits

## **Virtual Machine Troubleshooting**

- Review power-on requirements
- Troubleshoot virtual machine power-on failures

## **Graduation Lab**

- Complete a final multihour, multiproblem troubleshooting exercise