



vSphere 4: Troubleshooting

Duration: 4 Days **Course Code: VST**

Overview:

This lab-intensive course focuses on providing system administrators with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere™ 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 vCenter™ Server systems. Upon completion of this course, you can take the examination to become a VMware Certified Professional.

Target Audience:

System administrators, systems engineers, and help desk personnel who need the knowledge, skills, and abilities to perform advanced troubleshooting of their vSphere deployments

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 VMotion™, VMware Storage VMotion, VMware High Availability, VMware Distributed Resource Scheduler, and virtual machine power-on problems
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Prerequisites:

This is an advanced course. Required prerequisites are:

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

Module 1: Course Introduction

Module 2: ESXi Command-Line Troubleshooting Methods

- Install and use the vMA
- Learn common vSphere Command-Line Interface commands and syntax

- Configure ESXi technical support mode and SSH access

Module 3: ESX, ESXi, and vCenter Server Log Files

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

Module 4: Network Troubleshooting

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

Module 5: Management Troubleshooting

- Troubleshoot vSphere management components

Module 6: Storage Troubleshooting

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

Module 7: vMotion Troubleshooting

- Troubleshoot VMotion and Storage VMotion errors

Module 8: VMware Infrastructure Troubleshooting

- Troubleshoot DRS Cluster errors with shares, pools, and limits
- Troubleshoot HA Cluster errors with slot calculations, admission control, and host monitoring
- Review virtual machine power on requirements
- Troubleshoot virtual machine power on failures

Module 9: vSphere 4 DRS Cluster Troubleshooting

- Complete a final multihour, multiproblem troubleshooting exercise

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 01924 377489

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