



VM-TS4

VMware vSphere: Troubleshooting

Duration: 4 Days
Organisers: Nuclei & Westcon Africa in collaboration with Torque IT
Vendor: VMware
Category: Virtualization / Advance

Introduction

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.

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.

Prerequisites

This is an advanced course. Required prerequisites include the completion of one of the following:

- 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



Objectives

At the end of the course, you should be able to:

- 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

Course Outline

Module 1: Course Introduction

Module 2: 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

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 HA Cluster Troubleshooting

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

Module 9: DRS Cluster Troubleshooting

- Troubleshoot errors with shares, pools, and limits

Module 10: Virtual Machine Troubleshooting

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

Module 11: Graduation Lab

- Complete a final multi-hour, multi-problem troubleshooting exercise

Associated Certifications & Exams

On successful completion of this course students will receive a Torque IT attendance certificate.