

5 Days

VMware vSphere: Troubleshooting Workshop [V6.0]

VMware VSphere Troubleshooting Workshop V6.0 Training provides you the requisite knowledge base and skill set to build expertise in troubleshooting the VMware vSphere architecture.

This workshop is a crucial learning to system integrators to manage storage failures, troubleshooting network issues, troubleshooting virtual machine migration issues, diagnose and resolve all failures and problems occurring in the vSphere environment. This workshop is based on VMware ESXi 6 and VMware vCenter Server 6.

This five-day workshop provides hands-on lab experience of troubleshooting real-time work scenarios for professionals to better implement the tools in the right manner and be able to take sound analysis of operational failures.

Course Details

Course Outline

1. Course Introduction

- Understanding the Course Objectives
- Discuss the scope and topics covered by the course
- Become familiar with online Technical resources
- Become familiar with the VMware Education System and Certification tracks

2. Introduction to Troubleshooting

- Defining the troubleshooting scope
- Build a structured approach
- Understand the troubleshooting principles
- Identifying the effects of a system problem
- Follow a logical troubleshooting procedure
- Troubleshooting examples

3. Troubleshooting Tools

- Using VMware vSphere® Management Assistant

- Using command-line tools to identify and troubleshoot problems
- Find and interpret important log files
- Export relevant log files for technical support
- Using vRealize Log Insight for log aggregation and problem analysis
- Using vRealize Log Insight for efficient log search

4. Networking

- Identifying the symptoms of network-related problems
- Analyze and resolve standard and distributed switch issues
- Analyze virtual machine connectivity issues and restore them
- Identify and prevent potential problems
- Examine common management network connectivity issues and restore configurations

5. Storage

- Troubleshoot storage (NFS, iSCSI, VMware Virtual SAN™, and VMware vSphere® VMFS) connectivity problems
- Analyze hardware malfunction and software misconfiguration scenarios
- Identify multi-pathing-related issues, including APD and PDL
- Analyze possible causes, recover from the faulty conditions, and restore storage visibility

6. vSphere Clusters

- Identify and recover from issues related to vSphere HA
- Discuss and recover from vSphere DRS problems to achieve proper function and balanced resource use
- Analyze and troubleshoot various types of vSphere vMotion issues related to virtual machine migrations
- Examine vSphere cluster failure scenarios and possible solutions.

7. Virtual Machines

- Analyze and resolve common virtual machine snapshot issues
- Identify possible causes and resolve virtual machine power-on issues
- Resolve problems seen during VMware Tools™ installations
- Troubleshoot virtual machine connection state issues
- Examine failure scenarios and provide solutions

8. vCenter Server and ESXi

- Understanding of vCenter Server and VMware Platform Services Controller™ architecture in vSphere 6
- Identify and resolve authentication issues
- Troubleshoot VMware Certificate Authority and Store issues
- Learn to analyze and fix vCenter Server services issues
- Examine ESXi host and vCenter Server failure scenarios and resolve the issues

Who Should Attend

VMware vSphere Troubleshooting Workshop V6.0 training course is ideal for those working with the profiles of:

- System administrators
- System integrators

Pre Requisite

Required prerequisites include completion of one of the following:

- VMware vSphere: Fast Track [V6]
- VMware Certified Professional 6 – Data Center Virtualization (VCP6-DCV)
- VMware vSphere: Optimize and Scale [V6]
- Equivalent knowledge & administration experience with ESXi and vCenter Server

Experience in working with a command-line interface is highly recommended.

Exams

VMware Certified Professional (VCP) [VCP6-DCV]

VMware Certified Associate (VCA) [VCA]

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