VMware vSphere: Troubleshooting

Duración: 5 Días   Código del Curso: VST   Version: 8.0

Temario:

This five-day training course provides you with the knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 8 environment. This course increases your skill level and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

Product Alignment
- VMware ESXi 8.0
- VMware vCenter Server 8.0

Dirigido a:

System architects and system administrators

Objetivos:

- **By the end of the course, you should be able to meet the following objectives:**

- Introduce troubleshooting principles and procedures

- Use command-line interfaces, log files, and the vSphere Client to diagnose and resolve problems in the vSphere environment

- Explain the purpose of common vSphere log files

- Identify networking issues based on reported symptoms

- Validate and troubleshoot the reported networking issue

- Identify the root cause of networking issue

- Implement the appropriate resolution to recover from networking problems

- Analyze storage failure scenarios using a logical troubleshooting methodology

- identify the root cause of storage failure

- Apply the appropriate resolution to resolve storage failure problems

- Troubleshoot vSphere cluster failure scenarios

- Analyze possible vSphere cluster failure causes

- Diagnose common VMware vSphere® High Availability problems and provide solutions

- Identify and validate VMware ESXiTM host and VMware vCenter® problems

- Analyze failure scenarios of ESXi host and vCenter problems

- Select the correct resolution for the failure of ESXi host and vCenter problems

- Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems

- Troubleshoot performance problems with vSphere components

Prerequisitos:

This course requires completion of one the following courses:

- VCP-DCV certification
- VMware vSphere: Install, Configure, Manage [V8]
- VMware vSphere: Operate, Scale and Secure [V8]

The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:

- Install and configure ESXi
- Install vCenter Server

Exámenes y certificación

VMware Certified Professional

Data Center Virtualization 2023

The VCP-DCV 2023 certification validates candidate skills to implement, manage, and troubleshoot a vSphere infrastructure, using best practices to provide a powerful, flexible, and secure foundation for business agility that can accelerate the transformation to cloud computing.

- Create vCenter Server objects, such as data centers and folders
- Create and modify a standard switch
- Create and modify a distributed switch
- Connect an ESXi host to NAS, iSCSI, or Fibre Channel storage
- Create a VMware vSphere VMFS datastore
- Modify a virtual machine's hardware
- Migrate a virtual machine with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Configure and manage a VMware vSphere® Distributed Resource SchedulerTM cluster
- Configure and manage a VMware vSphere HA cluster
- Basic knowledge of command line tools like ESXCLI, DCLI, and PowerCLI

If you cannot complete these tasks, VMware recommends that you take the VMware vSphere: Install, Configure, Manage [V8] course instead.

- VSFT - VMware vSphere: Fast Track
- VSICM - VMware vSphere: Install, Configure, Manage
- VSOS - VMware vSphere: Optimize and Scale

Contenido:

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Introduction to Troubleshooting

- Define the scope of troubleshooting
- Use a structured approach to solve configuration and operational problems
- Apply troubleshooting methodology to logically diagnose faults and improve troubleshooting efficiency

3 Troubleshooting Tools

- Discuss the various methods to run commands
- Discuss the various ways to access ESXi Shell
- Use commands to view, configure, and manage your vSphere components
- Use the vSphere CLI
- Use ESXCLI commands from the vSphere CLI
- Use Data Center CLI commands
- Identify the best tool for command-line interface troubleshooting
- Identify important log files for troubleshooting vCenter Server and ESXi
- Describe the benefits and capabilities of VMware SkylineTM
- Explain how VMware Skyline works
- Describe VMware SkylineTM Health
- Describe VMware Skyline AdvisorTM

4 Troubleshooting Virtual Networking

- Analyze and troubleshoot standard switch problems
- Analyze and troubleshoot virtual machine connectivity problems
- Analyze and troubleshoot management network problems
- Analyze and troubleshoot distributed switch problems

5 Troubleshooting Storage

- Discuss the vSphere storage architecture
- Identify the possible causes of problems in the various types of datastores
- Analyze the common storage connectivity and configuration problems
- Discuss the possible storage problems causes
- Solve the storage connectivity problems, correct misconfigurations, and restore LUN visibility
- Review vSphere storage architecture and functionality necessary to troubleshoot storage problems
- Use ESXi and Linux commands to troubleshoot storage problems
- Analyze log file entries to identify the root cause of storage problems
- Investigate ESXi storage issues
- Troubleshoot VM snapshots
- Troubleshoot storage performance problems
- Review multipathing
- Identify the common causes of missing paths, including PDL and APD conditions
- Solve the missing path problems between hosts and storage devices

6 Troubleshooting vSphere Clusters

- Identify and troubleshoot vSphere HA problems
- Analyze and solve vSphere vMotion problems
- Diagnose and troubleshoot common vSphere DRS problems

7 Troubleshooting Virtual Machines

- Discuss virtual machine files and disk content IDs
- Identify, analyze, and solve virtual machine snapshot problems
- Troubleshoot virtual machine power-on problems
- Identify possible causes and troubleshoot virtual machine connection state problems
- Diagnose and recover from VMware Tools installation failures

8 Troubleshooting vCenter Server and ESXi

- Analyze and solve vCenter Server service problems
- Diagnose and troubleshoot vCenter Server database problems
- Use vCenter Server Appliance shell and the Bash shell to identify and solve problems
- Identify and troubleshoot ESXi host problems

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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