VMWA-22 - VMWARE VSPHERE: TROUBLESHOOTING [V8]

Categoria: **VMware**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	VMware	VMware Certified Instructor	Professionista IT	VMware

OBIETTIVI

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

- -Describe troubleshooting principles and procedures
- -Use the vSphere Client, the command line, and log files to configure, diagnose, and correct problems in vSphere
- -Explain the key vSphere log files from troubleshooting perspective
- -Describe the benefits and capabilities of VMware Skyline
- -Identify the networking issues by examining the reported symptoms, and troubleshoot the reported problems
- -Identify the storage issues by examining the reported symptoms, and troubleshoot the reported problems
- -Troubleshoot vSphere cluster failure scenarios and analyze possible causes
- -Diagnose common VMware vSphere® High Availability (vSphere HA) problems and provide solutions
- -Trouble virtual machine problems, including migration problems, snapshot problems, and connectivity problems
- -Identify VMware ESXi™ host and VMware vCenter Server® problems, analyze failure scenarios, and find resolutions
- -Troubleshoot performance problems with vSphere components

PREREQUISITI

This course requires completion of one the following courses:

- -VMware vSphere: Fast Track
- -VMware vSphere: Install, Configure, Manage
- -VMware vSphere: Operate, Scale and Secure

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
- -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 course instead.

CONTENUTI

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 diagnose faults and make troubleshooting efficient

3 Troubleshooting Tools

-Identify the utilities and tools used to run commands
-Identify how to access the vSphere ESXi shell
-Run commands to view, configure, and manage vSphere components
-Use Standalone ESXCLI for troubleshooting
-Run ESXCLI commands from the Standalone ESXCLI tool
-Use Data Center CLI commands for troubleshooting
-Run commands to view, configure, and manage your vSphere components
-Identify the best tool to use for CLI troubleshooting
-Locate important log files
-Identify how to use log files in troubleshooting
-Describe the benefits and capabilities of VMware Skyline™
-Explain how VMware Skyline works at a high-level
-Identify the types of health information provided by Skyline™ Health
-Identify uses for VMware Skyline™ Advisor
-Describe the support bundle REST API
-Use the support bundle REST API

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

-Recognize components in the vSphere storage architecture
-Identify the possible causes of problems in the various types of datastores
-Analyze the common storage connectivity and configuration problems and discuss the possible causes
-Resolve the storage connectivity problems, correct misconfigurations, and restore LUN visibility
-Analyze log file entries to identify the root cause of storage problems
-Use ESXi and Linux commands to troubleshoot storage problems
-Investigate ESXi storage issues

-Troubleshoot virtual machine snapshots
-Troubleshoot storage performance problems
-Recognize how multipathing works
-Identify the common causes of missing paths
-Resolve the missing path problems between hosts and storage devices

6 Troubleshooting vSphere Clusters

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

7 Troubleshooting Virtual Machines

-Describe virtual machine files
-Identify, analyze, and solve virtual machine snapshot problems
-Discuss virtual machine files and disk content IDs
-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 resolve vCenter service problems
-Diagnose and troubleshoot vCenter database problems
-Use vCenter appliance shell and the Bash shell to identify and solve problems
-Identify and troubleshoot ESXi host problems

INFO

Esame: 2V0-21.23 - VMware vSphere 8.x Professional --- VMware Certified Professional - Data Center Virtualization (VCP-DCV)
Materiale didattico: Materiale didattico ufficiale VMware in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)