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## VMware vSphere: Troubleshooting

Varighed: 5 Days Kursus Kode: VST Version: 8.0 Leveringsmetode: Company event (Firmakursus)

#### Beskrivelse:

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<sup>™</sup>, log files, and other tools to analyze and solve problems. **Product Alignment** 

- VMware ESXi 8.0

- VMware vCenter Server 8.0

#### **Company Events**

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

#### Målgruppe:

System architects and system administrators

#### Agenda:

- 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

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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

VMware Certified Professional

#### Data Center Virtualization 2023

The VCP-DCV 2023 certification validates candidate skills to implement, manage, and troubleshoot a vSphere infrastructure, using

# 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 [V8] course instead.

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

best practices to provide a powerful, flexible, and secure foundation for business agility that can accelerate the transformation to cloud computing.

### Indhold:

- 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

### Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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