ITTcert
BY ORSYS

Course : VMware vSphere: Troubleshooting V8 (VSTS8)

Official course, exam preparation 2V0-21.23

Practical course - 5d - 35h00 - Ref. BMW

With this training, you'll have the knowledge and skills you need in troubleshooting the VMware vSphere® 8 environment. You'll learn how to use command-line interfaces, VMware vSphere® Client™, log files and other tools to analyze and resolve problems.

Teaching objectives

At the end of the training, the participant will be able to:

- Present troubleshooting principles and procedures
- Using command line interfaces, log files and vSphere Client
- Explaining the purpose of vSphere log files
- Identify network problems
- Troubleshooting methods
- Identify the causes of storage failure
- Resolving vSphere cluster failure scenarios
- Analyze possible causes of vSphere cluster failure
- Diagnose common VMware vSphere® High Availability problems and provide solutions
- Resolve VM problems, including migration, snapshot and connection issues
- Identifying problems with VMware ESXi hosts and VMware vCenter Server
- Analyze failure scenarios and find solutions
- Troubleshooting performance problems with vSphere components

Intended audience
System administrators, system integrators.

Prerequisites
Completion of one of the following training courses: Ref. AMW or Ref. EMW or equivalent knowledge.

PARTICIPANTS
System administrators, system integrators.

PREREQUISITES
Completion of one of the following training courses: Ref. AMW or Ref. EMW or equivalent knowledge.

TRAINER QUALIFICATIONS
The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS
Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Certification

Successful completion of the 2V0-21.23 exam leads to VMware Certified Professional - Data Center Virtualization 2023 (VCP-DCV 2023) certification.
[Comment passer votre examen ?](#)

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

1 Introduction to troubleshooting

- Define the scope of troubleshooting.
- Use a structured approach to solve configuration and operating problems.
- Apply troubleshooting methodology to diagnose faults and ensure efficient troubleshooting.

2 Troubleshooting tools

- Identify the different methods for executing commands.
- Learn about the different ways of accessing ESXi Shell.
- Use commands to display, configure and manage your vSphere components.
- Use the vSphere command line interface.
- Use ESXCLI commands from vSphere CLI.
- Use data center CLI commands.
- Identify the best tool to use for CLI troubleshooting.
- Identify important log files for troubleshooting vCenter Server and ESXi.
- Describe the benefits and features of VMware SkylineTM.
- Explain how VMware Skyline works.
- Describe VMware SkylineTM Health and VMware Skyline AdvisorTM.

3 Virtual network troubleshooting

- Analyze and solve problems related to standard and distributed switches.
- Analyze and resolve virtual machine connectivity problems.

(4) Storage troubleshooting

- Understand the components of the vSphere storage architecture.
- Identify the possible causes of problems in different types of datastores.
- Analyze common connectivity and storage configuration problems.
- Discuss possible causes of storage problems.
- Solve storage connectivity problems.
- Correct configuration errors.
- Restore LUN visibility.
- Use ESXi and Linux commands to solve storage problems.
- Analyze log file entries to identify the root cause of storage problems.
- Investigate ESXi storage problems.
- Troubleshoot VM snapshots.
- Solve storage performance problems.
- Know how multipathing works.
- Identify common causes of missing paths, including PDL and APD conditions.
- Solve the problem of missing paths between hosts and storage devices.

(5) Troubleshooting vSphere clusters

- Identify and solve problems related to vSphere High Availability (HA).
- Analyze and resolve problems with vSphere vMotion.
- Diagnose and solve common vSphere DRS problems.

(6) Troubleshooting virtual machines

- Describe virtual machine files and disk content IDs.
- Identify, analyze and solve problems related to virtual machine snapshots.
- Troubleshoot virtual machine power-up problems.
- Identify possible causes and resolve connection status problems on virtual machines.
- Diagnose and remedy VMware Tools installation failures.

(7) Troubleshooting vCenter Server and ESXi

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