

# VMware vSphere: Troubleshooting [V8]

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### За Курса (About this Course):

- 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.

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### Цели – Какво ще научите (Course Goals/Skills):

- •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
  - Troubleshoot 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
- 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

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## Курсът е предназначен за (Audience):

- System administrators
  - System integrators
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## Формат на курса (Course Format):

<input type="checkbox"/>	<input type="checkbox"/>
Присъствен (Classroom) Курс в Учебната ни зала или В Офис на Клиент	Онлайн (Online/Virtual) Курс във виртуална зала с инструктор

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## Език на курса (Course Language Option)

<input type="checkbox"/>	<input type="checkbox"/>
Български (Bulgarian)	Английски (English)

Може да изберете Език на който да се проведе обучението – български или

английски. Всичките ни инструктори владеят свободно английски език.

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## Учебни Материали (Student Guides):



Учебните материали са достъпни в електронен формат. Могат да се ползват online/offline на всяко устройство. Доживотен достъп.

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## Лабораторна среда (Lab Environment):





Всеки курсист разполага със собствена лаб среда, където се провеждат упражненията, част от курса. Не е необходимо да инсталирате софтуер на компютър или специални изисквания за хардуер.

Участниците в присъствен формат в Учебния ни център разполагат с индивидуален компютър по време на обучението.

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## След завършване получавате (At Course Completion):

	
Lifetime Access - Video Archive 24/7	Certificate of Course Completion

Доживотен достъп до видео архив с запис на всяка отделна лекция.

Официален международно признат сертификат за завършен курс на обучение.

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## Продължителност (Course Duration):



- 5 работни дни (09:00 – 17:00)

**или**

- **40 уч.ч. обучение (теория и практика) в извънработно време с продължителност 4 седмици**
  - събота и неделя 10:00 – 14:00, 14:00 – 18:00, 18:00 – 22:00
  - понеделник и сряда 19:00 – 23:00
  - вторник и четвъртък 19:00 – 23:00
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## Плащане



Заявка за издаване на фактура се приема към момента на записването на съответния курс.

Фактура се издава в рамките на 7 дни от потвърждаване на плащането.

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## Предстоящи Курсове (Next Class):



Jul 13

09:00 - 17:00 EEST

[VMware vSphere: Install, Configure, Manage \[v8\]](#)

Aug 10

09:00 - 17:00 EEST

[VMware vSphere: Install, Configure, Manage \[v8\]](#)

Sep 14

09:00 - 17:00 EEST

[VMware vSphere: Install, Configure, Manage \[v8\]](#)


Oct 12

09:00 - 17:00 EEST

[VMware vSphere: Install, Configure, Manage \[v8\]](#)

## Manage [v8]

Nov 9

09:00 - 17:00 EET 

## VMware vSphere: Install, Configure, Manage [v8]

[View Calendar](#)

За повече информация използвайте формата за контакт.

Ще се свържем с Вас за потвърждаване на датите.

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### **Предпоставки (Изисквания) за Участие (Prerequisites):**

- VMware vSphere: Fast Track
  - VMware vSphere: Install, Configure, Manage
  - VMware vSphere: Optimize and Scale
  - Equivalent knowledge and administration experience with ESXi and vCenter Server
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**Курсът подготвя за следните  
сертификационни нива**