

# Tytuł szkolenia: VMware vSphere - Troubleshooting [V7] (EDU-VSTS7)

Kod szkolenia: EDU-VSTS7

## Wprowadzenie

This five-day, hands-on training course provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 7.x environment. This workshop increases your skill and competence in using the command-line interface, VMware vSphere® Client™, log files, and other tools to analyze and solve problems.

## Adresaci szkolenia

System administrators  
System integrators

## Cel szkolenia

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

- Introduce troubleshooting principles and procedures
- Practice Linux commands that aid in the troubleshooting process
- Use command-line interfaces, log files, and the vSphere Client to diagnose and resolve problems in the vSphere environment
- Explain the purpose of key vSphere log files
- Identify networking problems based on reported symptoms, validate and troubleshoot the reported problem, identify the root cause and implement the appropriate resolution
- Analyze storage failure scenarios using a logical troubleshooting methodology, identify the root cause, and apply the appropriate resolution to resolve the problem
- Troubleshoot vSphere cluster failure scenarios and analyze possible causes
- Diagnose common VMware vSphere® High Availability problems and provide solutions
- Identify and validate VMware ESXi™ host and VMware vCenter Server® problems, analyze failure scenarios, and select the correct resolution
- Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems
- Troubleshoot performance problems with vSphere components

### Prerequisites

This course requires completion of one of the following prerequisites:

- VMware vSphere: Fast Track [V6.x] or [V7]
  - VMware vSphere: Install, Configure, Manage [V6.x] or [V7]
  - VMware vSphere: Optimize and Scale [V6.x] or [V7]
  - Equivalent knowledge and administration experience with ESXi and vCenter Server
- Experience in working with a command-line interface is highly recommended.

## Czas i forma szkolenia

- 35 godzin (5 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

## Plan szkolenia

### 1. Course Introduction

- a. Introductions and course logistics
- b. Course objectives

### 2. Introduction to Troubleshooting

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

### 3. Troubleshooting Tools

- a. Use command-line tools (such as Linux commands, vSphere CLI, ESXCLI) to identify and troubleshoot vSphere problems
- b. Identify important vSphere log files and interpret the log file contents

### 4. Troubleshooting Virtual Networking

- a. Analyze and resolve standard switch and distributed switch problems
- b. Analyze virtual machine connectivity problems and fix them
- c. Examine common management network connectivity problems and restore configurations

### 5. Troubleshooting Storage

- a. Troubleshoot and resolve storage (iSCSI, NFS, and VMware vSphere® VMFS) connectivity and configuration problems
- b. Analyze and resolve common VM snapshot problems
- c. Identify multipathing-related problems, including common causes of permanent device loss (PDL) and all paths down (APD) events and resolve these problems

### 6. Troubleshooting vSphere Clusters

- a. Identify and recover from problems related to vSphere HA
- b. Analyze and resolve VMware vSphere® vMotion® configuration and operational problems
- c. Analyze and resolve common VMware vSphere® Distributed Resource Scheduler™ problems

### 7. Troubleshooting Virtual Machines

- a. Identify possible causes and resolve virtual machine power-on problems
- b. Troubleshoot virtual machine connection state problems
- c. Resolve problems seen during VMware Tools™ installations

### 8. Troubleshooting vCenter Server and ESXi

- a. Analyze and fix problems with vCenter Server services
- b. Analyze and fix vCenter Server database problems
- c. Examine ESXi host and vCenter Server failure scenarios and resolve the problems