Tytuł szkolenia: VMware vSphere: Advanced Troubleshooting Workshop [V6.7] (EDU-VATSWS67)

Kod szkolenia: VT-SP-TW6

Wprowadzenie

This five-day, intensive hands-on training workshop provides you with advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere® 6.7 environment. This workshop is aimed at experienced system administrators and introduces methods and skills that use management command-line interfaces (CLIs) and VMware vSphere® ClientTM. This workshop focuses on investigating and resolving problems, analyzing log files to help you recognize log file entries that identify root causes, and configuring specific key vSphere features.

Adresaci szkolenia

- Senior system administrators, experienced system administrators
- Senior system integrators, experienced system integrators

Cel szkolenia

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

Use the command-line interface, log files, and vSphere Client to diagnose and resolve problems in the vSphere environment

Practice Linux commands that aid in the troubleshooting process

Analyze vSphere log files and determine the root cause of specific problems

Troubleshoot storage problems and apply the appropriate resolution to these problems

Troubleshoot and resolve networking problems

Troubleshoot virtual machine problems, including migration problems, snapshot problems, and connection problems

Identify VMware ESXi™ host and VMware vCenter Server® problems, analyze failure scenarios or misconfigurations, and rectify them

Troubleshoot performance problems with vSphere components and apply mitigations

Configure and manage the vSphere infrastructure to improve availability and operational stability

Czas i forma szkolenia

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

Plan szkolenia

1. Course Introduction

Introductions and course logistics
Course objectives

2. Troubleshooting Tools

Identify the tools available for troubleshooting a vSphere environment
Explain the purpose of commonly used vSphere log files
Use Linux commands that will assist you with troubleshooting vSphere
Use the vim-cmd tool to manage hosts and virtual machines

3. Storage Troubleshooting

Review the 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 disk and storage issues
Troubleshoot virtual machine snapshots
Troubleshoot storage performance problems
Troubleshoot storage all paths down and permanent device loss conditions
Troubleshoot problems due to file locking on the ESXi host
Configuration task: Configure iSCSI multi-pathing

4. Network Troubleshooting

Review vSphere virtual switch architecture and functionality necessary to troubleshoot networking problems
Use ESXi and Linux commands to troubleshoot networking problems
Analyze log file entries to identify the root cause of networking problems
Recover from a management network failure
Troubleshoot VMware vSphere® vMotion® migration problems
Configuration task: Modify network card options and drivers
Configuration task: Migrate networking from a standard switch to a distributed switch
Monitor the behavior of NIC teaming failover and load balancing
Use the command line to isolate and resolve networking failures

5. System Troubleshooting

Review virtual infrastructure architecture and functionality necessary to troubleshoot ESXi and vCenter Server problems
Analyze log file entries to identify the root cause of virtual infrastructure problems
Use the command line to manage and troubleshoot the vSphere virtual infrastructure
Analyze virtual machine CPU performance
Troubleshoot ESXi host connection problems
Troubleshoot virtual machine power-on failures
Troubleshoot vCenter Server connection problems
Restart ESXi management agents and VMware vCenter® Server Appliance™ services from the command line
Perform a file-based backup of vCenter Server Appliance
Resolve Solution User certificate problems