

Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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VMware vSphere: Troubleshooting [V8]

CODE: LENGTH: PRICE:

VMW VSTS8 40 Hours (5 days) €3,850.00

Description

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.

Objectives

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

Audience

System architects and system administrators

Prerequisites

This course requires completion of one the following courses:

- VMware vSphere: Fast Track
- · VMware vSphere: Install, Configure, Manage
- VMware vSphere: Operate, Scale and Secure

The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:

- Install and configure ESXi
- Install vCenter

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.

Programme

- 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

Further Information

Product Alignment

- VMware ESXi 8.0
- VMware vCenter Server 8.0

Session Dates

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
01 Jan 0001			English	MOC On Demand		€3,750.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.