Enterprise Computing Solutions - Education Services

# TRAINING OFFERING

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# VMware Cloud Foundation: Troubleshooting [V5.0]

| CODE: | DURÉE: | PRIX H.T.: |
|---|---|---|
| VMW_VCFT5 | 21 Hours (3 Jours) | €2,470.00 |

## Description

This three-day training course provides the advanced knowledge, skills, and tools to achieve competency in troubleshooting problems in VMware Cloud Foundation™ infrastructure. In this course you are exposed to tools and methodologies that help you support and troubleshoot your VMware Cloud Foundation environment. In addition, various scenarios are presented to you in hands-on student labs and simulations where you will learn to identify, analyze, and solve problems systematically in VMware Cloud Foundation infrastructure.

## Objectifs

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

• Use logs to identify, analyze, and troubleshoot problems related to VMware Cloud Builder™ appliance and services
• Use the Supportability and Serviceability (SoS) Utility tool to identify and fix issues VMware Cloud Foundation infrastructure
• Identify, analyze, and troubleshoot problems related to host commissioning in VMware Cloud Foundation
• Identify, analyze, and troubleshoot problems related to Workload domain creation in VMware Cloud Foundation
• Identify, analyze, and troubleshoot problems related to NSX in VMware Cloud Foundation
• Identify, analyze, and troubleshoot problems related to certificates in VMware Cloud Foundation
• Identify, analyze, and troubleshoot problems related to passwords in VMware Cloud Foundation
• Identify, analyze, and troubleshoot problems related to Life Cycle Management (LCM) in VMware Cloud Foundation
• Identify, analyze, and troubleshoot problems related to using APIs in VMware Cloud Foundation Target

## Audience

Experienced System Administrators, System Engineers, System Integrators

## Prérequis

This course requires completion of the following course:

• VMware Cloud Foundation: Deploy, Configure, Manage [V5.0]
The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:

• Operational capabilities with VMware vSphere® processes and architecture
• Operational capabilities with VMware NSX®
• Operational knowledge of VMware vSAN™
Minimum one year experience with VMware Cloud Foundation

## Programme

**1 Course Introduction**
• Introductions and course logistics
• Course objectives

**2 Troubleshooting VMware Cloud Foundation Bring-up**
• Learn VMware Cloud Foundation bring-up troubleshooting methodologies
• Understand VMware Cloud Foundation bring-up validation pre-check process
• Use log files to identify VMware Cloud Foundationbring-up failures

• Understand Common VMware Cloud Foundationbring-up validation pre-check errors

**3 Workload Domain Troubleshooting**
• Use logs to perform workload domain troubleshooting
• Review logs for problem scenarios
• Review VMware Cloud Foundation SDDC Manager capabilities and services
• SDDC Manager troubleshooting options
• Use the Supportability and Serviceability (SoS) utility tool
• Apply troubleshooting methodology to identify potential failed workflows with SDDC Manager

**4 VMware Cloud Foundation Networking**
• Learn the components of VMware NSX architecture
• Maintain a VMware NSX Manager cluster
• Understand routing and switching with VMware NSX
• Summarize VMware Cloud Foundation networking requirements
• Describe the role of VMware NSX in VMware Cloud Foundation
• Deploy VMware NSX in VMware Cloud Foundationdomains
• Implement VMware NSX routing and switching in VMware Cloud Foundation
• Understand VMware NSX troubleshooting tools and methodologies
• Apply troubleshooting methodology to identify potential VMware NSX routing and switching issues in VMware Cloud Foundation

**5 VMware Cloud Foundation Certificates**
• Review cryptography fundamentals
• Explain the VMware Certificate Authority (VMCA) architecture
• Recall public key infrastructure (PKI) components
• Create a certificate signing request (CSR)
• Manage certificates for VMware Cloud Foundationcomponents
• Add a certificate authority (CA) in SDDC Manager
• Replace certificates with SDDC Manager
• Apply troubleshooting methodology to identify potential certificate errors

**6 Troubleshooting Password Management**
• Understand password rotation in SDDC Manager
• Summarize password management best practices
• Perform password rotation
• Use API calls and command-line tools to manage passwords
• Identify common password management problems

**7 VMware Cloud Foundation Lifecycle Management**
• Automate VMware Cloud Foundation upgrades
• Understand component upgrade prerequisites
• Upgrade SDDC Manager
• Upgrade VMware vSphere elements
• Upgrade VMware NSX
• Upgrade VMware Aria™ Suite products
• Apply troubleshooting methodology to identify potential issues with a VMware Cloud Foundationupgrade

**8 VMware Cloud Foundation API**
• Explain the use cases for the VMware Cloud Foundation API
• List the supported VMware Cloud Foundation API calls
• Understand Token-based authentication types
• Use API tools
• Apply troubleshooting methodology VMware Cloud Foundation API calls

## Informations supplémentaires

Product Alignment
• VMware Cloud Foundation 5.0
• VMware vSphere 8.0
• VMware NSX 4.0

## Dates de session

Sur demande. Merci de nous contacter

## Informations Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.