

# VMware Cloud Foundation: Troubleshooting [V5.0]

Kód kurzu: VMW\_VCFT

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.

## Pre koho je kurz určený

Experienced System Administrators, System Engineers, System Integrators

## Čo Vás naučíme

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

## Požadované vstupné znalosti

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

## Osnova kurzu

### 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 Foundation bring-up failures
- Understand Common VMware Cloud Foundation bring-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

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- 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 Foundation domains
- 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 Foundation components
- 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 Foundation upgrade

## 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

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- Use API tools
- Apply troubleshooting methodology VMware Cloud Foundation API calls

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