

# VMWARE CLOUD FOUNDATION: TROUBLESHOOTING [V5.0] (VCFT5)

Course Code: 821812

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.

## Product Alignment

- VMware Cloud Foundation 5.0
- VMware vSphere 8.0
- VMware NSX 4.0

## What You'll Learn

### **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

## Who Needs to Attend

Experienced System Administrators, System Engineers, System Integrators

## Prerequisites

**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

**Recommended prerequisites:**

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VIRTUAL CLASSROOM LIVE

\$3,550 CAD

3 Day

## Virtual Classroom Live Outline

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

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