

VMware Cloud Foundation: Troubleshooting

Course Overview

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 in which you learn to identify, analyze, and solve problems systematically in the VMware Cloud Foundation infrastructure.

Course Objectives

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 Foundation bring-up
- Use logs to identify, analyze, and troubleshoot problems related to VMware Cloud Builder™ appliance and services
- Use the Supportability and Serviceability (SoS) utility to identify and fix VMware Cloud Foundation infrastructure issues
- 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 VMware 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

Audience

- VMware customers, consultants, architects, and partners
- Internal personal services organization (PSO) and support teams

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 NSX
- Operational knowledge of VMware vSAN™
- Minimum one year experience with VMware Cloud Foundation

Course Delivery Options

- Classroom
- Live Online
- [Private training](#)

Product Alignment

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

Course Modules

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Troubleshooting VMware Cloud Foundation Bring-up

- Explain VMware Cloud Foundation bring-up troubleshooting methodologies
- Discuss the VMware Cloud Foundation bring-up validation precheck process
- Use log files to identify VMware Cloud Foundation bring-up failures
- Understand common VMware Cloud Foundation bring-up validation precheck 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
- Discuss SDDC Manager troubleshooting options
- Use the SoS utility
- Apply troubleshooting methodologies to identify potential failed workflows within SDDC Manager

4 VMware Cloud Foundation Networking

- Maintain a VMware NSX[®] Manager[™] cluster
- Understand NSX compute host connectivity and troubleshoot issues
- Use CLI tools to troubleshoot NSX compute host connectivity
- Implement NSX routing and switching in VMware Cloud Foundation
- Identify NSX troubleshooting tools and methodologies
- Discuss NSX Edge cluster troubleshooting options
- Apply troubleshooting methodologies to identify potential NSX routing and switching issues in VMware Cloud Foundation

5 VMware Cloud Foundation Certificates

- Create a certificate signing request

- Manage certificates for VMware Cloud Foundation components
- Add a certificate authority in SDDC Manager
- Replace certificates with SDDC Manager
- Apply troubleshooting methodologies to identify potential certificate errors

6 Troubleshooting Password Management

- Explain password rotation in SDDC Manager
- Summarize password management best practices
- Perform password rotation
- Use API calls and CLI tools to manage passwords
- Identify common password management problems

7 VMware Cloud Foundation Lifecycle Management

- Describe life cycle management architecture and terminology
- Discuss upgrade bundle management in SDDC Manager
- Automate VMware Cloud Foundation upgrades
- List component upgrade prerequisites
- Upgrade SDDC Manager
- Upgrade vSphere elements
- Upgrade NSX
- Upgrade VMware Aria Suite[™] products
- Apply troubleshooting methodologies 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 API commands
- Discuss token-based authentication types
- Use API tools
- Apply troubleshooting methodologies to VMware Cloud Foundation API calls

Contact

If you have questions or need help registering for this course, click [here](#).



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