

VMware Cloud Foundation: Troubleshooting

Durée: 3 Jours **Réf de cours: VMVCFT** **Version: 5.0** **Méthodes d'apprentissage: Virtual Learning**

Résumé:

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

Public visé:

Experienced System Administrators, System Engineers, System Integrators

Objectifs pédagogiques:

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| ■ By the end of the course, you should be able to meet the following objectives: | ■ Identify, analyze, and troubleshoot problems related to NSX in VMware Cloud Foundation |
| ■ Use logs to identify, analyze, and troubleshoot problems related to VMware Cloud Builder™ appliance and services | ■ Identify, analyze, and troubleshoot problems related to certificates in VMware Cloud Foundation |
| ■ Use the Supportability and Serviceability (SoS) Utility tool to identify and fix issues VMware Cloud Foundation infrastructure | ■ Identify, analyze, and troubleshoot problems related to passwords in VMware Cloud Foundation |
| ■ Identify, analyze, and troubleshoot problems related to host commissioning 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 Workload domain creation in VMware Cloud Foundation | ■ Identify, analyze, and troubleshoot problems related to using APIs in VMware Cloud Foundation Target |

Pré-requis:

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

Contenu:

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

Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.