Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware Cloud Foundation: Troubleshooting [V5.0]

CODE:	LENGTH:	PRICE:
VMW_VCFT5	24 Hours (3 days)	Request Price

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.

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 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

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

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

Further Information

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

Session Dates

On request. Please contact us

Additional Information

This training is also available as onsite training. Please contact us to find out more.