VMware Cloud Foundation Troubleshooting [V9.1] Training

Duration: **5 Day**

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Overview

What Can You Achieve with This Training?

- Develop a structured approach to diagnosing **installation, upgrade, and operational issues** in VMware Cloud Foundation 9.1 environments.
- Use **VCF Operations, log files, and Troubleshooting Workbench** to investigate errors and identify potential root causes.
- Troubleshoot performance, connectivity, and configuration issues affecting **ESX, vCenter, vSAN, and networking components**.
- Investigate failures related to **workload domains, licensing, certificate management, and VCF Automation**.
- Strengthen your troubleshooting capabilities for **vSphere Supervisor and vSphere Kubernetes Service (VKS)** deployments.

The **VMware Cloud Foundation Troubleshooting [V9.1] Training** is a **five-day, hands-on technical course** focused on identifying, analysing, and resolving issues in VMware Cloud Foundation 9.1 environments.

Participants learn structured **VCF troubleshooting techniques**, including how to locate and interpret relevant log files, investigate system behaviour, and examine the root causes of technical problems. The course combines instructor-led explanations with **practical laboratory exercises** to support troubleshooting in realistic operational scenarios.

Core topics include **VCF Operations monitoring and diagnostics, new deployment troubleshooting, upgrade issues, licensing problems, and workload domain operations**. The programme also addresses issues affecting **VMware Cloud Foundation Compute, Networking, and vSAN Storage**.

Advanced modules examine **certificate management, VCF Automation deployments, vSphere Supervisor, and vSphere Kubernetes Service (VKS)**. Participants explore how component logs, performance data, and monitoring tools can be used to investigate problems across different parts of the platform.

Designed for experienced technical professionals, this course helps develop the troubleshooting knowledge required to support the **reliability and operational continuity of VMware Cloud Foundation 9.1 infrastructure**.

Exams and Certification

This course helps participants prepare for the**VMware Certified Professional – VMware Cloud Foundation Support** certification exam.

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Prerequisites

Participants are expected to have completed the following training courses:

- **VCF Fundamentals for Technical Support**
- **VMware Cloud Foundation Build Manage Secure [v9.1]**
- **VMware Cloud Foundation Automate and Operate [v9.1]**

Familiarity with **command-line interfaces (CLI)** is strongly recommended.

Who Should Attend

This course is intended for:

- **System Administrators**
- **Solution Engineers**
- **Technical Consultants**
- **Infrastructure and Solution Architects**
- **Technical Support Personnel**

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What You Will Learn

By the end of this course, participants will be able to:

- Describe **VMware Cloud Foundation 9.1 architecture** and explain the roles of its primary components.
- Apply troubleshooting methods to investigate **validation precheck errors**.
- Identify and use relevant **VCF Installer and licensing component logs** to diagnose technical issues.
- Review the **VCF installation sequence** to determine where deployment failures may occur.
- Explain the **workload domain creation workflow** and investigate related deployment problems.
- Monitor **vSAN health, storage performance, and network operations** using VCF Operations.
- Use **Real-Time Metrics, TopN, Flows, and Troubleshooting Workbench** to analyse performance and connectivity problems.
- Diagnose issues affecting **ESX hosts, vCenter, virtual machines, and vSphere clusters**.
- Investigate **licensing and certificate management failures** using relevant logs and verification methods.
- Explain **VCF Automation deployment stages** and troubleshoot clustered deployment issues.
- Evaluate troubleshooting approaches for **vSphere Supervisor and VKS cluster deployments**.
- Use **log analysis and root cause investigation** techniques to identify the underlying causes of operational problems.

Outline

1. Course Introduction

- Introducing the course structure and logistical information
- Reviewing the learning objectives and the main **VCF 9.1 troubleshooting topics**

2. Troubleshooting with VCF Operations

- Analysing **fleet visibility, VCF Health, storage, and networking operations**
- Comparing tools for monitoring **logs, metrics, network flows, and Kubernetes environments**
- Explaining monitoring capabilities for **business applications**
- Understanding the role of **logs, metrics, and flows** in operational visibility

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- Exploring **Troubleshooting Workbench** capabilities and session management
- Using the **Log Comparison** feature
- Examining **Real-Time Metrics, TopN, and Flows** pages
- Reviewing integrated log management and new capabilities in **VCF Operations 9.1**
- Outlining the steps required to deploy the **Log Management** component

3. Troubleshooting New Deployment

- Reviewing the **VMware Cloud Foundation solution**, architecture, and major components
- Understanding the sequence of operations during **VCF installation**
- Identifying essential **log files** used to investigate installation failures

4. Troubleshooting Upgrades

- Evaluating deployment models based on existing infrastructure
- Explaining troubleshooting methods for **validation precheck errors**
- Identifying the appropriate logs for **VCF Installer troubleshooting**
- Reviewing the primary components and capabilities of **VMware vSphere Foundation 9.0 Private Cloud**
- Understanding the architecture of **vSphere Foundation 9.0 Private Cloud**
- Examining supported **upgrade paths** to vSphere Foundation 9.0 Private Cloud
- Identifying prerequisites for **vSphere Foundation deployment**

5. Troubleshooting License Management

- Reviewing license assignment processes for **connected and disconnected deployments**
- Identifying the **log files and locations** associated with VCF licensing components
- Using **ESX host commands** to verify licensing status

6. Workload Domain Troubleshooting

- Examining different **workload domain architecture models**
- Understanding the **workload domain creation workflow**
- Investigating issues during **workload domain commissioning**
- Identifying **networking prerequisites** for workload domain creation

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- Reviewing key **log files** used to troubleshoot workload domain issues

7. Troubleshooting VMware Cloud Foundation Compute

- Monitoring the operational condition of **compute environments**
- Diagnosing problems affecting **ESX hosts and vCenter**
- Identifying and resolving **virtual machine (VM)** issues
- Investigating problems related to **vSphere cluster features**

8. Troubleshooting VMware Cloud Foundation Networking

- Monitoring **network operations**
- Deploying the **Operations Network Appliance**
- Analysing **network flows and network performance**

9. Troubleshooting VCF vSAN Storage

- Analysing **vSAN performance** through VCF Operations
- Reviewing tools used to monitor **vSAN clusters** and their use cases
- Examining **VCF Operations reports** for vSAN management
- Identifying tools for collecting performance metrics at **VM and VMDK levels**

10. Troubleshooting Using VCF Operations Fleet Management

- Exploring **centralised certificate management**
- Configuring **Microsoft Certificate Authority (CA)**
- Generating **Certificate Signing Requests (CSRs)** and replacing certificates
- Investigating **Microsoft Certificate Authority (MSCA) Intermediate CA** certificate failures
- Reviewing component logs associated with **certificate management issues**

11. Troubleshooting VMware Cloud Foundation Automation

- Examining **VCF Automation deployment stages** and installation options
- Identifying prerequisites for a **clustered setup**
- Reviewing the steps involved in **clustered VCF Automation deployment**
- Locating essential **log files** for troubleshooting deployment issues

12. Troubleshooting vSphere Kubernetes Service

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- Identifying the main components of **vSphere Supervisor**
- Comparing **vSphere Supervisor deployment models**
- Reviewing the key components of **vSphere Kubernetes Service (VKS)**
- Understanding the integration of **vSphere Supervisor and VKS** with **Fleet Depot Service**