VMware Cloud Foundation: Troubleshooting

Category: Infrastructure & IT Operations | **Vendor:** VMware

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This comprehensive five-day hands-on training is designed to provide you with the knowledge, skills, and abilities to achieve competence in troubleshooting the VMware Cloud Foundation® (VCF) 9.0 environments. This course blends lecture and hands-on lab exercises to deliver advanced skills to diagnose and resolve problems in VMware CloudFoundation 9.0 environments. This course also focuses on investigating and resolving problems and analyzing log files to help you recognize log file entries that identify root causes.

About This Course

- Course Introduction
- Troubleshooting VCF Deployment[
- Troubleshooting Upgrades
- Troubleshooting License
- Workload Domain Troubleshooting
- Troubleshooting VMware Cloud Foundation Compute
- Troubleshooting VCF vSAN Storage
- Troubleshooting VMware Cloud Foundation Networking
- Troubleshooting VCF Operations Fleet Management
- Troubleshooting VMware Cloud Foundation Automation

Who Should Attend

System Administrators, Solution Engineers, Consultants, and Support Personnel

Prerequisites & Entry Requirements

General Prerequisites:

- Before taking this course, students should have completed the VMware Cloud Foundation Fundamentals for Technical Support training from Support Learning Path Stage-1.
- Familiarity with command-line interfaces is strongly recommended.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

By the end of the course, you should be able to meet the following objectives:

- Describe the VCF solution
- Describe the VCF architecture and components
- Describe the deployment model based on the existing infrastructure
- Explain the troubleshooting methodology to resolve common validation precheck errors
- Identify and use the correct logs to troubleshoot VMware Cloud Foundation (VCF) Installer
- Describe the license assignment process for connected and disconnected deployments
- Identify the log file and log locations for VCF licensing components
- Explain the workload domain creation workflow
- Troubleshoot network pool creation
- Troubleshoot VMware® ESX® host commissioning
- Monitor VMware vSAN™ health using the VMware Cloud Foundation® Operations console
- Monitor vSAN Health using vSphere Client
- Monitor network operations
- Analyze flows and network performance
- Describe central password management in VCF Operations
- Monitor password expiration
- Describe the architecture and components of the VMSP cluster
- Identify key log files to troubleshoot the VMSP cluster provisioning
- Identify key kubectl commands and logs to check the health status of the VMSP cluster
- Generate, download, and review the structure of the VMware Cloud Foundation® Automation support log bundle

Detailed Course Outline

Course Introduction

- Introduction and course logistics

- Course objectives

Troubleshooting VCF Deployment

- Describe the VCF solution

- Describe the VCF architecture and components

- Describe the sequence of steps that occur during the VCF installation process

- Identify key log files to troubleshoot the VCF installation

- Describe the VMware vSphere® Foundation solution

- Describe the vSphere Foundation architecture and components

Troubleshooting Upgrades

- Understand the deployment model based on the existing infrastructure

- Explain the troubleshooting methodology to resolve common validation precheck errors

- Identify and use the correct logs to troubleshoot VMware Cloud Foundation (VCF) Installer

- Explain the key components and features of VMware vSphere Foundation 9.0 Private Cloud

- Understand the architecture of VMware vSphere Foundation 9.0 Private Cloud

- Identify and analyze the supported upgrade paths to vSphere Foundation 9.0 private cloud

- Identify the prerequisites to deploy vSphere Foundation

Troubleshooting License

- Describe the license assignment process for connected and disconnected deployments

- Identify the log file and log locations for VCF licensing components

- Run commands on the ESX host to verify licensing status

Workload Domain Troubleshooting

- Describe the workload domain architecture and components

- Explain the workload domain creation workflow

- Troubleshoot network pool creation
- Troubleshoot ESX host commissioning
- Troubleshoot the different steps in workload domain creation

Troubleshooting VMware Cloud Foundation Compute

- Monitor compute environments using VMware Cloud Foundation
- Troubleshoot ESX hosts and vCenter issues effectively
- Diagnose and resolve virtual machine problems efficiently
- Describe vSphere cluster features and related issues
- Describe diagnostic findings to identify and remediate issues

Troubleshooting VCF vSAN Storage

- Monitor vSAN health using the VCF Operations console
- Monitor vSAN Health using VCF Operations diagnostics Health in the vSphere Client
- Monitor object health in the vSphere Client

Troubleshooting VMware Cloud Foundation Networking

- Monitor network operations
- Deploy the Operations Network appliance
- Analyze flows and network performance

Troubleshooting VCF Operations Fleet Management

- Describe central password management in VCF Operations
- Implement password management
- Monitor password expiration
- Update VCF component passwords

Troubleshooting VMware Cloud Foundation Automation

- Describe the architecture and components of the VMSP cluster
- Identify key log files to troubleshoot the VMSP cluster provisioning
- Identify key kubectl commands and logs to check the health status of the VMSP cluster
- Generate, download, and review the structure of the VCF Automation support log bundle

Skills You Will Learn:

By the end of the course, you should be able to meet the following objectives:

- Describe the VCF solution
- Describe the VCF architecture and components
- Describe the deployment model based on the existing infrastructure
- Explain the troubleshooting methodology to resolve common validation precheck errors
- Identify and use the correct logs to troubleshoot VMware Cloud Foundation (VCF) Installer
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- Generate, download, and review the structure of the VMware Cloud Foundation® Automation support log bundle

Frequently Asked Questions

Q: What delivery options are available for VMware Cloud Foundation: Troubleshooting?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day VMware Cloud Foundation: Troubleshooting course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the VMware Cloud Foundation: Troubleshooting training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for VMware Cloud Foundation: Troubleshooting?

Yes, we provide corporate training, dedicated training, and closed classes for VMware Cloud Foundation: Troubleshooting. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: VMware Cloud Foundation: Troubleshooting, VMware VCF and VMware Cloud Director, VCFTS

Q: Why choose Nexus Human for VMware Cloud Foundation: Troubleshooting?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware Cloud Foundation: Troubleshooting training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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