Enterprise Computing Solutions - Education Services

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VMware Cloud Foundation Troubleshooting [V9.1]

CODE:	LÄNGE:	PREIS:
VMW_VCFTS91	40 Hours (5 Tage)	Request Price

Description

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) 9.1 environments. This course blends lecture and hands-on lab exercises to deliver advanced skills to diagnose and resolve problems in VMware Cloud Foundation 9.1 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.

Lernziel

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
- Analyze vSphere Supervisor architecture to diagnose and troubleshoot issues.
- Troubleshoot VKS cluster deployments using logs and health checks.

Zielgruppe

- System Administrators, Solution Engineers, Consultants and Support Personnel

Voraussetzungen

This course has the following prerequisites:

- 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 is strongly recommended.

Inhalt

1. Course Introduction

• Introduction and course logistics.
• Course objectives

2. Troubleshooting with VCF Operations

• Analyze fleet visibility, VCF Health, storage, and network operations using VCF Operations.
• Compare the tools used to monitor integrated logs, metrics, flows, and Kubernetes environments, and identify their use cases.
• Explain the monitoring capabilities available for critical business applications in VCF Operations.
• Outline how logs, metrics, and flows work together to provide end to end operational visibility.
• Outline the new Troubleshooting Workbench capabilities
• Manage a troubleshooting workbench session, such as Save and Share
• Use the log comparison feature in a troubleshooting session
• View the Real-Time Metrics and TopN pages in a troubleshooting session
• View the Flows page in a troubleshooting session
• Discuss the integrated log management capabilities
• Describe the new features and enhancements in Log Management in VCF Operations 9.1
• Outline the steps of deploying the Log Management component

3. Troubleshooting New 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

4. 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

5. Troubleshooting License Management

• 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

6. Workload Domain Troubleshooting

• Describe the various workload domain architecture models
• Describe the workflow of workload domain creation
• Diagnose and troubleshoot workload domain commissioning issues
• Identify the networking prerequisites for creating the workload domain
• Identify the key log files for troubleshooting workload domain issues

7. 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

8. Troubleshooting VMware Cloud Foundation Networking

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

9. Troubleshooting VCF vSAN Storage

• Analyze vSAN performance using VCF Operations
• Compare tools used to monitor a vSAN cluster and identify their use cases

• Explain the reports available in VCF Operations for managing vSAN environments
• Outline the tools available for capturing performance metrics at the VM and VMDK level

10. Troubleshooting Using VCF Operations Fleet Management

• Describe centralized certificate management
• Configure a Microsoft certificate authority
• Generate and replace component certificate signing requests.
• Troubleshoot MSCA intermediate CA certificate failures.
• Identify component logs for certificate management issues.

11. Troubleshooting VMware Cloud Foundation Automation

• Identify the VCF Automation deployment stages and options
• List the prerequisites for deploying clustered setup
• Describe the various steps involved in clustered deployment
• Identify the key log files to troubleshoot deployment issues

12. Troubleshooting vSphere Kubernetes Service

• Identify the key components of vSphere Supervisor
• List the various vSphere Supervisor deployment models
• Identify the key components of vSphere Kubernetes Service
• Describe vSphere Supervisor and VKS integration with Fleet Depot Service for unified software management

Kurstermine

Auf Anfrage. Bitte kontaktieren Sie uns

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.