VMware Cloud Foundation: Troubleshooting [V9.0]

Duration: *5 Day(s)*

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 Cloud Foundation 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.

Objectives

- Describe the VCF solution
- Explain the troubleshooting methodology
- Identify and use correct logs
- Troubleshoot VMware ESX host commissioning

Who Should Attend

- System Administrators
- Solution Engineers
- Consultants
- Support Personnel

Prerequisites

Course Outline

Course Introduction

1. Introduction and course logistics
2. Course objectives

Troubleshooting VCF Deployment

3. Describe the VCF solution
4. Describe the VCF architecture and components
5. Describe the sequence of steps during the VCF installation process
6. Identify key log files to troubleshoot the VCF installation
7. Describe the VMware vSphere Foundation solution
8. Describe the vSphere Foundation architecture and components

Troubleshooting Upgrades

9. Understand the deployment model

10. Explain troubleshooting methodology for precheck errors
11. Identify and use correct logs for the VCF Installer
12. Explain features of VMware vSphere Foundation 9.0
13. Understand the VMware vSphere Foundation 9.0 architecture
14. Identify and analyze upgrade paths

15. Identify prerequisites for vSphere Foundation deployment

Troubleshooting License

16. Describe the license assignment process

17. Identify log files and locations for VCF licensing components

18. Run commands on the ESX host for licensing status

Workload Domain Troubleshooting

19. Describe the workload domain architecture

20. Explain workload domain creation workflow
21. Troubleshoot network pool creation
22. Troubleshoot ESX host commissioning

23. Troubleshoot workload domain creation steps

Troubleshooting VMware Cloud Foundation Compute

24. Monitor compute environments with VMware Cloud Foundation

25. Troubleshoot ESX hosts and vCenter issues
26. Diagnose and resolve virtual machine problems
27. Describe vSphere cluster features and issues

28. Describe diagnostic findings

Troubleshooting VCF vSAN Storage

29. Monitor vSAN health with VCF Operations console

30. Monitor vSAN health with vSphere Client

31. Monitor object health with vSphere Client

Troubleshooting VMware Cloud Foundation Networking

32. Monitor network operations

33. Deploy Operations Network appliance

34. Analyze flows and network performance

Troubleshooting VCF Operations Fleet Management

35. Describe central password management in VCF Operations

36. Implement password management
37. Monitor password expiration

38. Update VCF component passwords

Troubleshooting VMware Cloud Foundation Automation

39. Describe VMSP cluster architecture and components

40. Identify log files for VMSP cluster troubleshooting
41. Identify kubectl commands and logs for VMSP cluster health
42. Generate, download, and review VCF Automation support log bundle