

DELL TECHNOLOGIES VCF 5.2.1 ON VXRAIL ADMINISTRATION

Course Code: 833000

Learn an administrator to manage a VMware Cloud Foundation (VCF) on VxRail solution.

This course enables an administrator to manage a VMware Cloud Foundation (VCF) on VxRail solution. It covers reviewing the management interfaces, managing users, roles, and passwords, managing certificates and licenses, managing the workload domains, deploying NSX-T Edge cluster, performing lifecycle management, configuring multi-instance management, and exploring troubleshooting and support options. Hands on labs and simulated interactions are included for practicing key administrative tasks.

What You'll Learn

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

- Describe the VCF on VxRail architecture
- Manage user accounts, roles and, passwords
- Manage VCF on VxRail components certificates and licenses
- Add and remove Tenant workload hosts
- Explore Developer Center
- Deploy NSX-T Edge cluster
- Describe VCF multi-instance management
- Perform lifecycle management
- Describe the prerequisites and the process to deploy vRealize Suite

Who Needs to Attend

This course is intended for customers, partners and Dell Technologies employees who are responsible for administering and managing a VCF on VxRail solution

Prerequisites

This course assumes that the students are familiar with:

- Basic understanding of VMware Cloud Foundation
- Technical proficiency with VMware ESXi, vSphere and NSX-T components and user interfaces
- Experience of administering VxRail systems

The following training is recommended:

- VxRail Concepts
- VxRail Administration
- VMware Cloud Foundation Overview

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VIRTUAL CLASSROOM LIVE

\$2,200 USD

2 Day

Virtual Classroom Live Outline

Module 1: Describe the VCF on VxRail

- Overview of VCF on VxRail
- VCF on VxRail Architecture
- Supported storage and networking options
- High-level implementation steps for VCF on VxRail

Module 2: Use multiple UIs to identify system components

- Describe the various user interfaces and explain their uses Identify the cluster, hosts and storage for each domain in SDDC manager
- Lab: Identify the cluster, hosts and storage for the Management Domain and VI WLD in SDDC manager
- Identify the cluster, hosts, and storage for each WLD in the vSphere client
- Lab: Identify Mgmt. and VI WLD components using the vSphere Client
- Identify NSX components and segments for each WLD in NSX Manager
- Lab: Identify Mgmt. and VI WLD components using the NSX Manager

Module 3: Manage User Accounts and Roles SSO and identity sources

- Lab: Add Active Directory over LDAP external identity source to VCF
- VCF users and roles
- Lab: Assign roles to groups and test access

Module 4: Manage System Component Passwords Component password management options for VCF

- Lab: Change a password locally on a system component
- Lab: Use the Remediate action to update a component password in SDDC Manager
- Lab: Use the Update action to set a specific password for a VCF component
- Lab: Use the Rotate Now action to set a random password for a VCF

component

- Lab: Use the Schedule Rotation action to set an automatic password change schedule
- Lab: Use the lookup_password utility to retrieve a component password

Module 5: Manage TLS Certificates Certificate management options for VCF

- Lab: Manage Certificates

Module 6: Manage Licenses How licensing works in SDDC manager

- Lab: Add a license to SDDC Manager
- Lab: Assign a new license from SDDC Manager

Module 7: Manage Workload Domain Hosts Overview of adding a VxRail host to a workload domain

- Lab: Add a VxRail host to a VxRail cluster using the vSphere client and VxRail plugin
- Lab: Add a VxRail host to a VI workload domain using SDDC Manager.
- Considerations for removing a VxRail host from an existing workload domain
- Lab: Remove a VxRail host from a VI workload domain using SDDC Manager.

Module 8: Use Developer Center to access and manage VCF VCF developer center and API capabilities

- Lab: Retrieve cluster information using developer center
- Lab: Create a service account using developer center

Module 9: Deploy NSX Edge cluster on a VI WLD using the API NSX networking for VI workload VMs

- Lab: Deploy an NSX Edge cluster using API
- Lab: Validate the NSX Edge cluster deployment using NSX Manager

Module 10: Configure SDDC Manager and NSX Manager Backups

- Various backup types and options for SDDC Manager and NSX Manager
- Lab: Configure an external SFTP server target in SDDC Manager
- Backup schedules for VCF
- Lab: Configure a backup schedule for SDDC Manager, NSX Manager and vCenter.

Module 11: Upgrade SDDC Manager

- VCF Lifecycle Management (LCM)
- Why and when to perform an update
- Lab: Validate that the correct upgrade bundle is available
- Lab: Perform a Precheck in SDDC Manager
- Lab: Perform an upgrade on SDDC Manager

Module 12: Deploy VMware Aria Suite Lifecycle

- Lab: Deploy VMware Aria Suite Lifecycle

Module 13: Support VCF

- Supportability and Serviceability (SoS) Utility
- Lab: Disable the ESXi SSH access for all ESXi hosts using the SOS utility

- Lab: Validate system health using the SOS utility
- Lab: Generate logs using the SOS utility and collect the logs
- Describe VCF log files uses and locations
- Describe how to troubleshoot a failed workflow

Virtual Classroom Live Labs

- Lab: Use vSphere Client to Explore the Newly Deployed VCF on VxRail solution
- Lab: Explore the SDDC Manager UI
- Lab: Join WLDs vCenters to Active Directory (AD)
- Lab: Add AD as the Default Identity Source
- Lab: Create an Administrative User and Group in AD
- Lab: Review Existing AD Groups
- Lab: Assign SDDC Manager Roles
- Lab: Unassign an SDDC Manager Role
- Lab: Verify SDDC Manager Roles
- Lab: Create and Add a Microsoft CA Template
- Lab: Configure Internet Information Services (IIS) to Allow Access to the CA
- Lab: Configure Access to CA in SDDC Manager
- Lab: Generate a Certificate Signing Request
- Lab: Generate and Install a Signed Certificate
- Lab: Explore Developer Center
- Lab: Create an SDDC Manager Service Account
- Lab: Explore Available Licenses in the SDDC Manager UI
- Lab: Review Downloaded Bundles and the Current Version of SDDC Manager
- Lab: Install Update Bundles
- Lab: Remove a host from the Tenant Workload Domain
- Lab: Deploy an NSX-T Edge Cluster on the VI WLD using the Postman API Tool.

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Date created: 12/19/2025 9:53:40 AM

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