

VxRail Appliance Administration - Classroom

Course Description

Course Duration

3 Days

Overview

This course presents the knowledge necessary to administer and manage a VxRail Cluster. Key topics include management interfaces, managing cluster configurations, resource provisioning and expansion, monitoring, managing availability, and basic troubleshooting. Hands on labs included in the course provide a step-by step walkthrough of the key procedures to manage the cluster.

Audience

This course is intended for customers, partners and Dell EMC employees who will be responsible for administering and managing VxRail Clusters.

Prerequisite Knowledge/Skills

This course assumes that the students are familiar with:

- VxRail Appliance architecture and theory of operation
- IP networking and configurations
- VMware vCenter Server to configure virtual resources

The VxRail Appliance 4.7.XXX Concepts On Demand course and the VMware vSphere: Install, Configure, Manage course or equivalent knowledge are recommended.

Course Objectives

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

- Describe the VxRail Appliance system architecture and components
- Manage a VxRail cluster using vCenter and the VxRail Manager Plug-in for vCenter
- Configure and provision resources on a VxRail cluster
- Monitor system status, health and performance
- Maintain the system, and troubleshoot basic system issues

Course Outline

The content of this course is designed to support the course objectives.

- Module 1 – VxRail Overview
 - VxRail Overview
 - Network Considerations

Support Contact

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- Documentation and Resources
- Lab: Explore VxRail Documentation
- Module 2 – Administration and Management Overview
 - Introduction to VxRail Management Interfaces
 - vSAN Overview
 - VxRail Configurations
 - Lab: Explore VxRail Cluster with vSphere Client and VxRail Plug-in
 - Lab: Explore iDRAC and ESXi Shell
- Module 3 – VxRail Management
 - VxRail Plug-in Overview
 - Monitoring VxRail
 - VxRail Roles and Permissions
 - Lab: Monitoring with VxRail Plug-in
- Module 4 – Managing vSAN
 - vSAN Configuration
 - Storage Policies
 - Monitoring vSAN Cluster
 - vSAN Availability
 - Lab: Manage vSAN Storage Policies
 - Lab: Monitor Health and Performance of VxRail vSAN Cluster
 - Lab: FTT/FTM/Fault Domain Interactions
- Module 5 – Managing Virtualization
 - vSphere Concepts and Functions
 - Managing Virtual Machines
 - Managing Virtual Networks
 - Dell EMC OpenManage Network Integration (OMNI) for VMware vCenter
 - Lab: VM Deployment with vSAN Storage Policy
 - Lab: Configure vDS Port Group
- Module 6 – Availability Management
 - Availability Features
 - VxRail Data Protection Options
 - Stretched Clusters
 - Lab: Restart VM using HA
 - Lab: Node Utilization and Failover
- Module 7 – Maintenance and Troubleshooting
 - Maintenance Procedures
 - Drive Expansion
 - Cluster Expansion
 - Software Upgrade
 - Log Collection

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- Troubleshooting
- Lab: Generate VxRail procedures with SolVe Online
- Guided Simulation - Cluster Expansion
- Lab: Log Collection
- Lab: View VxRail Advisories and Knowledgebase Articles

In addition to lecture and demonstrations, this course includes labs designed to allow practical experience for the participant.

Course Delivery Modes and Product Version Information

Refer to the **Product Version Description** document for a list of Delivery Modes and product versions covered by this course.

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