KOENIG SOLUTIONS · COURSE OUTLINE

# Dell EMC VxRail Appliance Implementation and Administration

Learn to deploy, administer and troubleshoot Dell EMC VxRail appliances, from hardware installation to vSAN and vSphere management.

| 5 Days | 14 | 52 |
| --- | --- | --- |
| DURATION | MODULES | TOPICS |

## COURSE OVERVIEW

This course covers hyper-converged infrastructure concepts and the VxRail platform, including its management interfaces, vSAN overview and VxRail Manager views and tasks. It addresses managing vSAN configuration, storage policies and availability, alongside managing vSphere, availability features, stretched clusters, health checks, maintenance and troubleshooting. It then covers planning a VxRail deployment, using the VxRail Configuration Portal and SolVe to prepare installation procedures, installing VxRail hardware, and validating the network environment. Finally, it covers deploying a VxRail cluster with VxRail-managed or existing vCenter Server and performing post-deployment tasks such as licensing, vSAN services and backup configuration.

## WHO THIS COURSE IS FOR

- **Infrastructure Administrators**
- **Systems Engineers**
- **Virtualization Administrators**
- **Storage Administrators**
- **Implementation Engineers**

## LEARNING OBJECTIVES

- Explain the benefits of hyper-converged infrastructure and VxRail
- Describe VxRail Manager views and administration tasks
- Configure vSAN storage policies and monitor vSAN health
- Apply VxRail availability features including stretched clusters
- Plan vCenter Server and network options for VxRail deployment
- Install VxRail hardware and cable nodes to ToR switches
- Validate the network environment using the Network Validation Tool
- Deploy a VxRail cluster and perform post-deployment tasks

COURSE SYLLABUS

# 14 Modules, 52 Topics

DAY 1

01

## VxRail Overview

TOPICS

Benefits of hyper-converged infrastructure · What is VxRail? · VxRail documentation and resources · VxRail network considerations

02

## VxRail Administration and Management Overview

TOPICS

Introduction to management interfaces · vSAN Overview · VxRail conventions

DAY 2

03

## VxRail Manager

TOPICS

VxRail Manager views · VxRail Manager tasks

04

## Managing vSAN

TOPICS

vSAN Configuration · Storage Policies · Monitoring vSAN · Availability Considerations

05

## Managing Virtualization

TOPICS

vSphere concepts and functions · Managing vSphere

DAY 3

06

## Availability Management

TOPICS

VxRail availability standard features · VxRail additional availability features · Stretched clusters

07

## Maintenance and Troubleshooting

TOPICS

VxRail health check and log collection · VxRail maintenance procedures · Troubleshooting

DAY 4

01

## Plan for a VxRail Deployment

TOPICS

- Review VxRail architecture and deployment process
- Identify vCenter Server deployment options and requirements
- Identify VxRail network deployment options and requirements
- Identify VxRail node discovery options and requirements

02

## Use VxRail Configuration Portal to Prepare for VxRail Deployment

TOPICS

- VxRail Configuration Portal Overview
- Create VxRail Project
- Create VxRail cluster configuration
- Export VxRail configuration report
- Review pre-deployment checklist
- Download VxRail configuration file for deployment

03

## Install VxRail Hardware

TOPICS

- Process Overview
- Rack VxRail nodes and Connect power
- Cable to ToR switches
- Power On VxRail Nodes
- Configure iDRAC and system time for VxRail nodes

04

## Use SolVe to Generate VxRail Install Procedure

TOPICS

- Generate procedure for installing and configuring the VxRail cluster

DAY 5

## 05

## Validate Network Environment for Deployment

TOPICS

- Configure tagged management VLAN ID on VxRail nodes
- Configure access to VxRail Manager VM
- Validate the network environment manually
- Validate the network environment using the Network Validation Tool (NVT)

## 06

## Deploy a VxRail Cluster

TOPICS

- Deploy a standard VxRail cluster with VxRail-managed vCenter Server
- Deploy a standard VxRail cluster with existing vCenter Server

## 07

## Perform Post Deployment Tasks

TOPICS

- Verify VxRail cluster deployment using VxRail Plugin
- Perform vSAN health check
- Add VMware licenses
- Enable vSAN Performance Service
- Enable vSAN Space Efficiency Services
- Enable vSAN Encryption Services
- Create vSAN storage policies
- Configure Dell support account and Secure Remote Services
- Configure VxRail Manager file-based backup

WHAT IS INCLUDED

## Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

## Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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