



VxRail Test Drive™ for Technical Decision Makers

vmware®



VXRAIL-TD

Length: 1 day

Format: Lecture/Lab

Course Description

Data centers have been designed to provide high performance and high availability at an increasing cost of high complexity and low ability to adapt to a new and changing infrastructure. The complexity of today's data center architectures makes it impossible for IT to respond to the needs of the business in a timely and cost efficient manner. This can relegate IT to the role of cost center rather an innovator.

To meet these challenges, data center managers are continuing to leverage virtualization and technologies that embrace the ease of management and adaptability that virtualization brings to the table.

We have seen virtualization transform the role of a physical server and we are now experiencing the transformation of storage through software defined storage technology. With Dell's acquisition of EMC, we see the perfect blend of compute, storage and virtualization. VMware's vSAN technology coupled with Dell's compute platform forges a hyper-converged appliance that is easy to deploy, consume and support.

Managed through the well-known VMware vCenter Server, VxRail Appliances provide existing VMware customers an experience they are familiar with allowing them to seamlessly integrate VxRail into their existing IT infrastructure.

The goal of this workshop is to help you understand the fundamentals and advantages of Dell EMC VxRail and VMware vSAN platforms and their key enabling technologies.

This course includes hands-on lab exercises using demo pods that have been designed for you to explore VxRail and vSAN management capabilities.

Prerequisites

You will gain the most from this seminar if you are familiar with basic storage networking concepts, have at least a CCNA-level knowledge of routing and switching, and some familiarity with VMware.

Who Should Attend

This workshop provides solutions-oriented training that is designed for end-user DC Architects and Senior Engineers who are responsible for developing data center solutions that span compute, network, and storage.

Learning Objectives

- Describe Hyper-convergence
- Describe vSAN and SDDC
- Describe VxRail Hardware and Operations
- Compare VxRail with vSAN Ready Nodes
- Describe how to deploy and operate VxRail

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Lessons

Lesson 1: Hyper-convergence

- Why HCI
- Usage Scenarios

Lesson 2: vSAN

- What is vSAN
- What is SDDC
- Why vSAN
- Hardware Requirements
- Failure and Expansion Scenarios
- Features
- Versions

Lesson 3: VxRail Hardware

- Models
- Networking Considerations
- Data Services
- Scalability
- Support

Lesson 4: VxRail vs vSAN Ready Nodes

- Advantages of VxRail

Lesson 5: VxRail Deployment and Operations

- System Planning
- Concepts to Know
- VxRail Manager
- Daily vCenter Management

Labs

- Lab 1: First Build
- Lab 2: Logical and Physical Health
- Lab 3: Cluster Expansion - Scaling Out
- Lab 4: QoS IOPS limit
- Lab 5: Fault Domains
- Lab 6: Erasure Coding
- Lab 7: Snapshot Creation and Management
- Lab 8: Deduplication and Compression

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