

# Test Drive™ on Dell VxRail

## Workshop Description

Data centers have been designed to provide performance and high availability at an increasing cost of high complexity and difficulty to adapt to new and changing infrastructures. 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.

To meet these challenges, data center managers are continuing to leverage virtualization and creating Software Defined Data Centers (SDDC). VxRail is a critical enabler that provides companies the power and flexibility that is needed in today's changing data center landscape.

Using VxRail to power your SDDC provides unparalleled & fully integrated architectures from VMware's vSAN to full Life Cycle Management (LCM) of your local and remote environments.

Manage, move, and upgrade seamlessly as new and updated functionality becomes available. Orchestrate your environment like never before with integration to VMware Cloud Foundation (VCF) and embrace a multi-cloud environment with ease.

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. Our workshop will help you understand the fundamentals and advantages of Dell 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.

## The VxRail Technical Workshop will cover

- Dell HCI: Considering a Hyper Converged infrastructure? Learn how leveraging HCI to modernize your data center is a great first step to future proof your organization.
- VMware SDDC and Multi Cloud Vision: VMware Cloud and Cloud Foundation
- vSAN – What it is and how it works
- VxRail Overview and Differentiation
  - Hyperconverged OS, VxRail Manager, Automated Life Cycle Management, APIs,
  - ESRS, other included software
  - Data Protection overview
  - Licensing
  - Single vendor support
  - Hardware options including Intel (SSDs, NVMe, Optane)
- Networking of VxRail and Benefits of SmartFabric Services
- Solution Deployment Options and Use Cases
  - VVD on VxRail, VCF on VxRail, VMware Cloud on Dell, 2-node, 1-Node and Compute only nodes, Container/ DevOps (PRA/PKS), VDI (Horizon)
- Deployment
  - GIS capabilities and service offerings

## Who Should Attend

This technical 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.

You will gain the most from this seminar if you are familiar with basic virtualization, storage and networking concepts.

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## Lessons

### Module 1:

HCI Overview

### Module 2:

vSAN

- Benefits of vSAN
- What it is and how it works

### Module 3:

**Hardware and data services**

- Dedup and Compression
- VSAN File services
- Licensing
- Single Vendor Support
- Failure Events
- Hardware demands on business
- RAID 5/6 for VSAN ESA

## Hands-on Labs

Lab 1: Getting Started

Lab 2: Monitoring and Maintenance

Lab 3: Using the VxRail REST API

Lab 4: Add & Update Satellite Nodes

Lab 5: Cluster Expansion

Lab 6: Lifecycle Management (LCM)

### Module 4:

LifeCycle management and REST API

- LCM benefits
- Deployment flexibility
- VxRail API
- VxRail Overview

### Module 5:

Solution Deployment Options and Use Cases

- Expand your landscape, Edge - Satellite nodes, Entry level, 2-node, VD-4000 witness node, Core, Multi-cloud, VMware Horizon Use case

### Module 6:

Deployment

- GIS capabilities and service offerings



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