



MICROSOFT TRAINING

Dell Ems Vxrail Appliance Implementation Administration Course

Implement and administer Dell EMC VxRail appliances. Master hyper-converged infrastructure for efficient data center operations.

DURATION

24 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level "Dell EMC VxRail Appliance Implementation Administration Course" is meticulously designed for IT professionals seeking to master the deployment, configuration, and ongoing management of Dell EMC's leading hyper-converged infrastructure solution. Participants will gain in-depth knowledge of VxRail architecture, its integration with VMware vSAN and vSphere, and best practices for ensuring peak performance and operational efficiency. The curriculum emphasizes hands-on skills necessary for seamless implementation and robust administration of VxRail environments, focusing on core technologies that drive modern data centers.

By completing this 24-hour intensive course, IT professionals will acquire the expertise to simplify data center operations, accelerate application deployment, and significantly reduce total cost of ownership through VxRail's powerful capabilities. This certification empowers administrators to confidently manage the entire VxRail lifecycle, from initial deployment and scaling to advanced troubleshooting and upgrades, positioning them as invaluable assets in modern, software-defined data centers. It's an essential stepping stone for those looking to specialize in hyper-converged solutions and drive digital transformation within their organizations.

Duration	24 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to VxRail and HCI Fundamentals

- Overview of Hyper-Converged Infrastructure (HCI)
- Dell EMC VxRail Appliance Architecture and Components
- VxRail Models and Use Cases in Enterprise Environments
- Introduction to VMware vSAN and vSphere Integration
- Essential Networking Concepts for VxRail Deployment

02 Module 2: VxRail Appliance Deployment and Initial Configuration

- VxRail Pre-Installation Requirements and Site Preparation
- Detailed Network Configuration and Planning for VxRail
- Implementing VxRail Manager and Initial Cluster Setup
- Expanding an Existing VxRail Cluster
- Post-Deployment Configuration, Validation, and Health Checks

03 Module 3: VxRail Administration and Management

- Leveraging VxRail Manager for Daily Operations and Monitoring
- VMware vCenter Server Integration and Management Best Practices
- Managing Storage Resources and Policies with vSAN
- Network Management and Troubleshooting within VxRail
- Performance Monitoring, Alerting, and Reporting Tools

04 Module 4: Data Protection and High Availability Strategies

- VxRail Data Protection Options and Backup Strategies
- Implementing and Managing vSphere High Availability (HA) for VxRail
- Understanding vSphere Distributed Resource Scheduler (DRS)
- Designing and Implementing Backup and Recovery Solutions for VxRail Workloads

- Disaster Recovery Considerations and Solutions for VxRail

05 Module 5: VxRail Lifecycle Management and Troubleshooting

- Executing VxRail Software Updates and Upgrades with VxRail Manager
- Node Management: Adding, Removing, and Replacing VxRail Nodes
- Common VxRail Issues and Advanced Troubleshooting Methodologies
- Utilizing VxRail Log Analysis and Support Tools
- Performance Optimization Techniques for VxRail Clusters

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Hyper-Converged Infrastructure (HCI) Administrator**
- > **Data Center Solutions Architect (Dell EMC VxRail Specialist)**
- > **Cloud Infrastructure Engineer with VxRail Expertise**

FREQUENTLY ASKED QUESTIONS

Q: What specific prerequisites are recommended for individuals looking to gain the most from this Dell EMC VxRail Appliance Implementation Administration Course?

While not strictly mandatory, participants will benefit greatly from foundational knowledge in server virtualization (preferably VMware vSphere at an VCP-level understanding), basic networking concepts (TCP/IP, VLANs, routing), and general storage principles. Familiarity with the Linux command line and experience with basic data center operations are also advantageous for practical exercises and advanced troubleshooting scenarios.

Q: How does this course specifically prepare me to manage advanced lifecycle operations, such as non-disruptive upgrades or hardware replacements, within a production VxRail environment?

This course dedicates a significant module to VxRail Lifecycle Management, covering the entire upgrade process using VxRail Manager, best practices for patching, and detailed procedures for adding, removing, or replacing VxRail nodes. You will learn to perform these critical operations with minimal downtime and understand the underlying mechanisms that ensure data integrity and system availability during such events, preparing you for real-world production environments.

Q: Beyond basic administration, what skills will I acquire to effectively optimize and troubleshoot performance bottlenecks in a Dell EMC VxRail cluster?

The curriculum includes dedicated sections on performance monitoring, analysis, and optimization within VxRail environments. You will learn to leverage VxRail Manager and vCenter Server tools to identify resource contention, analyze vSAN performance metrics, and apply best practices for workload placement and configuration. Furthermore, the troubleshooting module equips you with systematic approaches to diagnose and resolve common performance issues, including network latency, storage I/O bottlenecks, and CPU/memory contention, ensuring your VxRail cluster operates at peak efficiency.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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