DELL Technologies

VxRail Installation and Implementation
Course Description

Course Duration
3 days

Overview

This course presents VxRail Installation and Implementation procedures. It covers implementation planning, hardware installation, validation of the network environment, system initialization, post-deployment tasks, cluster expansion, and implementation troubleshooting. Interactive simulations, video demonstrations, and labs are used to supply a step-by-step walkthrough of the key installation and implementation procedures.

VxRail customers who wish to take this course to self-deploy their VxRail system should contact their Dell account manager for more details about the current customer self-installation process requirements (Specifically, the request for product qualification, RPQ)

Audience

This course is intended for all audiences that handle the installation and implementation of VxRail systems.

Prerequisite Knowledge/Skills

- Basic understanding of converged and hyper-converged infrastructure
- Technical ability with all VMware vSphere components
- Knowledge of Layer-2 Networking

Course Objectives

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

- Plan for a VxRail deployment.
- Create a VxRail cluster configuration with the VxRail Configuration Portal.
- Generate VxRail installation procedures with SolVe.
- Rack and cable VxRail hardware.
- Configure VxRail node iDRAC and system time.
- Validate the network for deployment.
- Deploy VxRail clusters in various deployment configurations.
- Perform post-deployment validation tasks.
- Perform post-deployment configuration tasks.
- Perform VxRail software version upgrade.
- Perform VxRail cluster expansion.
- Perform VxRail installation troubleshooting.

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Course Outline

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

- Plan for a VxRail Deployment
    - Review VxRail architecture and deployment process.
    - Identify server and rack requirements
    - Identify vCenter Server deployment options and requirements.
    - Identify VxRail network deployment options and requirements.
    - Identify VxRail node discovery options and requirements.
    - Identify storage deployment options and requirements
- Use VxRail Configuration Portal to prepare for VxRail deployment.
    - VxRail Configuration Portal Overview
    - Create VxRail Project
    - Create VxRail cluster configuration
    - **Interaction:** Create a VxRail Cluster Configuration
    - Export VxRail configuration report
    - Review pre-deployment checklist
    - **Interaction:** Export a Configuration Report and Review the Pre-Deployment Checklist.
    - Download VxRail configuration file for deployment
    - **Lab:** Use SolVe to generate a VxRail hardware installation procedure.
- Install VxRail hardware
    - Process Overview
    - Rack VxRail nodes and Connect power
    - Cable to ToR switches
    - Power On VxRail Nodes
    - Configure iDRAC and system time for VxRail nodes
    - **Interaction:** Configure iDRAC network settings using the system BIOS method and validate system time.
- Implement a VxRail Cluster
    - Use SolVe to generate a VxRail Installation procedure to configure a VxRail cluster
    - **Lab:** Generate a VxRail Configuration Procedure
    - **Lab:** Compare two VxRail Configuration Procedures
- Validate network environment for deployment
    - Configure tagged management VLAN ID on VxRail nodes
    - **Interaction:** Modify default management network VLAN ID
    - Configure access to VxRail Manager VM
    - **Lab:** Configure VxRail Manager VM network settings
    - **Lab:** Validate the ToR Switch configuration

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- – **Lab:** Validate the IP Address availability, reachability, and DNS readiness
- Deploy a VxRail cluster
  - – Deploy a standard VxRail cluster with VxRail-managed vCenter Server
  - – **Interaction:** Deploy a standard VxRail Cluster with VxRail-managed vCenter and predefined VDS.
  - – Deploy a standard VxRail cluster with existing vCenter Server
  - – **Lab:** Prepare the existing vCenter Server
  - – **Lab:** VxRail deployment with an existing vCenter Server and VxRail-deployed VDS.
  - – **Interaction:** Add a Native Key Provider in vCenter
  - – **Interaction:** Deploy a VxRail cluster with vSAN ESA, customer-supplied vCenter Server, and a Native Key Provider
- Perform post deployment tasks
  - – Verify VxRail cluster deployment using VxRail Plugin
  - – **Lab:** Verify VxRail deployment using VxRail Plugin
  - – Perform vSAN health check
  - – **Lab:** Review vSAN Health
  - – Add VMware licenses
  - – Enable vSAN Performance Service
  - – **Lab:** Enable vSAN Performance Service
  - – Enable vSAN Space Efficiency Services
  - – **Lab:** Enable vSAN Space Efficiency
  - – Enable vSAN Encryption Services
  - – Create vSAN storage policies
  - – **Lab:** Create Storage Policy
  - – Configure Dell support account and Secure Remote Services
  - – Configure VxRail Manager file-based backup
  - – **Lab:** Configure VxRail Manager file-based backup
- Perform VxRail Software Upgrade
  - – **Interaction:** Perform VxRail Software Upgrade
- Perform VxRail cluster expansion
  - – Expand a VxRail cluster by adding nodes in a single rack
  - – **Lab:** Add a node to a VxRail cluster
- Troubleshoot VxRail implementations
  - – VxRail Implementation Process Troubleshooting
  - – Search Dell knowledge base for VxRail implementation errors
  - – Perform log collection
  - – **Lab:** Perform log collection
  - – **Lab:** Troubleshoot vSAN using vSphere Client and ESXCLI

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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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