

Dell VxRail Design

Certification Description



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Certification Overview

Hyperconverged solutions simplify IT operations while reducing operational costs. A VxRail cluster allows businesses to start small when integrating into their datacenters and grown seamlessly. An understanding of the structure and requirements to go from nodes in a box to a working cluster is a requirement for any individual designing VxRail clusters. Individuals will use the certification to validate their ability to support design activities.

Certification Requirements

To successfully complete this certification, a candidate must:

1. Have a sufficient knowledgebase/skill set through hands-on product experience and/or by consuming the recommended training.
2. Pass the VxRail Design exam.

Note: These details reflect certification requirements as of August 2, 2024.

The Proven Professional Program periodically updates Certifications to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

Dell Technologies Partners: Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Competencies provide partners with the ability to deliver services under their own brand or co-deliver with Dell Technologies. Tiered partners are eligible to obtain Services Competencies upon completing the specific requirements outlined in the [Services Competencies Matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

Exam Overview

The VxRail certification exam provides a comprehensive understanding of designing VxRail clusters, encompassing product knowledge, hardware, and software requirements. This certification equips you with the skills to navigate the end-to-end process of cluster design, covering essential topics such as the design process, physical components, compute and networking virtualization, tools for workloads, configuration creation, and multi-site or multi-rack implementations. By successfully completing this exam, you will validate your ability in VxRail cluster design, enabling you to confidently architect robust and efficient solutions for your organization's infrastructure needs.

Products

Products likely to be referred to on this exam include but are not limited to:

- Dell PowerEdge Servers
- VMware vSphere
- VMware vCenter
- VMware vSAN
- VxRail

Exam Topics

Topics likely to be covered on this exam include:

VxRail Physical Components and Design Process (10%)

- Describe VxRail cluster architecture.
- Describe the process to design a VxRail cluster.
- Describe VxRail rack requirements.

VxRail Deployment Planning (25%)

- Describe vCenter server.
- Describe physical networking components.
- Explain vSphere Distributed Switch usage.
- Describe additional network consideration.
- Identify node discovery options.
- Describe vSAN options.

Determine the Nodes and Node Resources (30%)

- Describe the use of Live Optics.
- Describe the use of the VxRail Sizing Tool.
- Identify the impact of fault tolerance methods.
- Identify the impact of applying Deduplication and compression.
- Explain configuration options in the VxRail Sizing Tool.
- Explain the use of reference workloads.
- Outline the use of a solution summary.

Using VxRail Configuration Tools (8%)

- Creating VxRail projects and configuration.
- Review completed configuration for implementation.

Designing for Additional VxRail Configurations (28%)

- Identify 2-node cluster design consideration.
- Identify stretch cluster design consideration.
- Identify Dynamic Node design consideration.
- Identify VxRail cluster expansion consideration.
- Identify vSAN ESA design consideration.

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.