

[VMNSXDDV6.2]: VMware NSX: Design and Deploy [V6.2]

Length : 5 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This 5-day course prepares you to lead VMware NSX® design and deployment projects by providing an understanding of general design processes and frameworks. You look at the design and deployment considerations for network virtualization as part of an overall software-defined data center design.

Audience Profile

Network professionals who have experience working with VMware NSX and are responsible for designing or deploying virtualized network architecture

At Course Completion

- Understand and apply a design framework
- Apply a design process for gathering requirements, constraints, assumptions, and risks
- Analyze existing physical networking and security components, processes, and operations
- Design a VMware vSphere® virtual data center to support VMware NSX requirements
- Design a physical network to support network virtualization in a software-defined data center
- Design logical network services
- Design logical security services
- Design a data center rack solution to support scalability and high availability
- Identify management, monitoring, and operational tools for a proposed solution
- Analyze the operational readiness of an organization and perform a skills gap analysis
- Analyze alternative design choices for risk mitigation

Pre-Requisites

This course requires understanding the concepts and topics presented in the following courses:

- VMware NSX: Install, Configure, Manage or VMware NSX: Troubleshooting and Operations

If you have not taken these courses, you should have equivalent experience.

Passing of the VCP6-NV and VCIX6-NV certification is recommended.

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Course Outline

Module 1: Course Introduction

Lessons

- Introductions and course logistics
- Course objectives

Module 2: Design Process and Principles

Lessons

- Understand the design process
- Understand design frameworks

Module 3: Architecture and Components

Lessons

- Understand the management, control, and data planes
- Describe VMware NSX® Manager™
- Design the VMware NSX® Controller™ cluster

Module 4: Switching and Routing

Lessons

- Design an Ethernet infrastructure
- Describe VMware vSphere® Distributed Switch™
- Design a logical switching solution
- Design a bridging solution
- Design a VMware NSX logical router solution

Module 5: Edge Services

Lessons

- Design a remote access solution
- Design load-balancing services

Module 6: Security

Lessons

- Design a defense in depth
- Design edge firewall services
- Design distributed firewall services
- Design and integrate security services

Module 7: Cross-vCenter and Multisite

Lessons

- Describe cross-vCenter solutions
- Design multisite NSX solutions
- Design a VMware NSX solution with stretched clusters

Module 8: Operations and Automation

Lessons

- Describe native operational tools

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- Describe VMware integrated monitoring tools
- Design a VMware NSX monitoring and operations solution that leverages third-party tools

Module 9: Enterprise Design Lab

Lessons

- Design and present a conceptual solution
- Design and present a logical solution

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