

VMware NSX: Design & Deploy

Duration: 5 Days

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 virtualisation as part of an overall software-defined data center design.

Product Alignment: VMware NSX 6.2 vSphere 6

Target Audience:

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

Pre-requisites:

Before attending this course, students must have:

- VMware NSX: Install, Configure, Manage or VMware NSX: Troubleshooting and Operations if you have taken these courses you have the equivalent experience.
- Passing of the VCP6-NV and VCIX6-NV certification is recommended
- This course prepares you for the following certification: VCDX6-NV

Module 1: Course Introduction

- Introductions and course logistics

Module 2: Design Process and Principles

- Understand the design process
- Understand design frameworks

Module 3: Architecture and Components

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

Module 4: Switching and Routing

- 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

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

Module 6: Security

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

Module 7: Cross-vCenter and Multisite

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

Module 8: Operations and Automation

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

Module 9: Enterprise Design Lab

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

Course Completion:

After completing this course, students will be able to:

- Understand and apply a design framework
- Apply a design process for gathering requirements, constraints, assumptions and risks
- Analyse 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 virtualisation 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 proposed solution
- Analyse the operational readiness of an organisation and perform a skills gap analysis
- Analyse alternative design choices for risk mitigation