VMware NSX for Internetworking Experts Fast Track [V6.2]

Course Overview

This 5-day comprehensive, fast-paced training course focuses on installing, configuring, and managing VMware NSX®. This course addresses NSX as a part of the software-defined data center, implementation use cases and features of NSX, and functionality operating at layer 2 through layer 7 of the OSI model.

Data center network architectures are examined to demonstrate how NSX intersects with and virtualizes functions of a Cisco-based infrastructure in spine-leaf and traditional core-aggregate-access architectures. Lecture and hands-on lab activities support your understanding of NSX features, functionality, and ongoing management and control.

Course Objectives

By the end of the course, you should be able to meet the following objectives:

- Describe the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe features and benefits of NSX network virtualization
- Identify prerequisites for NSX
- Configure and deploy NSX management, control, and data plane components
- Configure, deploy, and use logical switch networks
- Describe advanced networking products and features that are relevant to NSX
- Configure and deploy the NSX distributed router to optimize east-west data center traffic flows
- Configure and deploy VMware NSX® Edge™ services gateway appliances
- Explore advanced routing designs that optimize north-south traffic flows
- Configure and use NSX virtual private networks
- Configure and use logical load balancing
- Configure NSX Edge firewall and distributed firewall policy rules
- Configure Service Composer security groups and policies
- Use role-based access to control user account privileges
- Use activity monitoring to validate and create security policies
- Design an NSX solution that considers rack design and advanced networking capabilities

Target Audience

Experienced system administrators who specialize in networking

Prerequisites

- System administration experience with Microsoft Windows or Linux operating systems
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification
- A solid background in a Cisco-based infrastructure or physical networking infrastructure
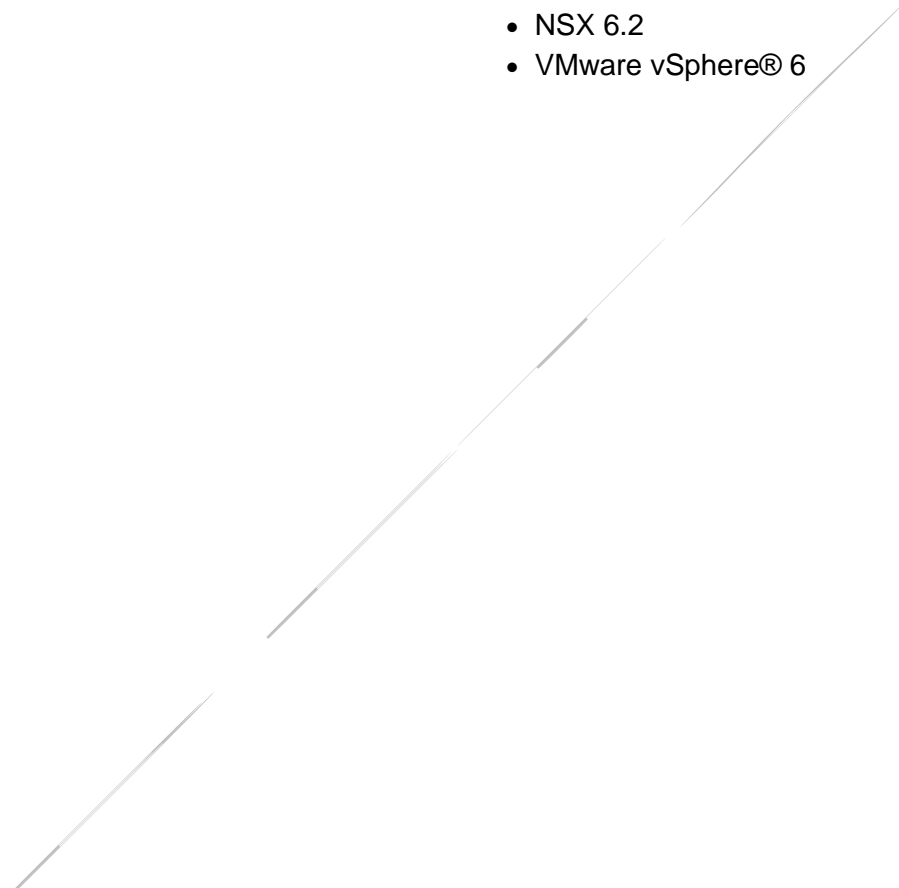
Certifications

This course prepares you for the following certification:

- [VCP6-NV](#)

Course Delivery Options

- Classroom
- Live Online
- [Onsite](#)

Product Alignment

- NSX 6.2
- VMware vSphere® 6

Course Modules

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Evolution of the Software-Defined Data Center
- Evolution of the software-defined data center
- Introduction to vSphere
- Introduction to network virtualization
- vSphere networking

3 Management and Control Components
- VMware NSX® Manager™
- VMware NSX® Controller™ clusters

4 Integrating vSphere and Physical Networking
- Virtual and physical network integration
- NSX preparation

5 NSX Logical Networking and VXLAN
- VXLAN overview and NSX switching
- NSX replication modes and frame walk

6 NSX Logical Routing
- IP routing fundamentals
- Overview of routing protocols
- Distributed logical router
- Edge gateway routing

7 NSX Layer 2 Bridging
- NSX software bridging
- Distributed logical router and bridging
- Bridging packet flow
- Bridging use case and examples
- Hardware bridging

8 Additional Edge Gateway Services
- Network address translation
- Network load balancing
- Virtual private networking
- Edge services gateway high availability

9 NSX Firewall and Security Services
- NSX security overview
- NSX Edge firewall
- NSX distributed firewall
- NSX identity-based firewall
- Service Composer
- Data security and activity monitoring

- NSX data security

10 NSX Operations and Monitoring Tools
- Backup and availability
- Role-based access control
- Monitoring tools
- Flow monitoring

11 Multi-vCenter NSX
- Introduction to multi-vCenter NSX
- Multi-vCenter NSX deployment models
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12 VMware NSX and Design
- NSX designs: infrastructure
- NSX designs: advanced network protocols

Contact

If you have questions or need help registering for this course, click [here](#).