

VMware NSX for Internetworking Experts Fast Track

Delivery Methods

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

Course Duration

- Five (5) extended days of instructor-led classroom training
- 50% lecture, 50% hands-on lab

Target Audience

Experienced system administrators that specialize in networking

Course Suitability

- | | |
|---|--|
| <input checked="" type="checkbox"/> Administrator | <input checked="" type="checkbox"/> Expert |
| <input checked="" type="checkbox"/> Engineer | <input checked="" type="checkbox"/> Advanced |
| <input type="checkbox"/> Architect | <input checked="" type="checkbox"/> Professional |
| | <input type="checkbox"/> Fundamentals |

Prerequisites

- Experienced network administrators or System Administrators with a strong background in networking
- Understanding of concepts presented in the [VMware Data Center Virtualization Fundamentals](#) course for [VCA-DCV certification](#)

Certifications

For more information, go to [VMware Certification](#).

Pricing

Contact your VMware representative or a VMware Authorized Training Center™ for pricing information.

More Information

Courses are conveniently scheduled around the world. Go to [VMware Education](#) to find the class that is right for you.



Course Overview

This comprehensive, fast-paced training course focuses on how to leverage the power of the VMware NSX™ network virtualization and security platform. This course covers NSX as a part of the software-defined data center, implementation, use cases, features, 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 the student's understanding of the NSX features, functionality, and on-going management and control.

Course Objectives

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

- Describe the evolution of the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe Cisco Nexus and UCS products and features relevant to NSX
- Describe NSX layer 2 networking
- Configure, deploy, and use logical switch networks in a UCS environment
- Configure and deploy NSX distributed routers to establish East-West connectivity
- Configure and deploy VMware NSX Edge™ services gateway appliances to establish North-South connectivity
- Configure and use all the main features of the NSX Edge services gateway
- Configure NSX Edge firewall rules to restrict network traffic
- Configure NSX Distributed firewall rules to restrict network traffic
- Use role-based access to control user account privileges
- Use Activity Monitor to determine if a security policy is effective
- Use Flow Monitoring to monitor network traffic streams
- Configure service composer policies
- Use NSX APIs to automate virtual network provisioning and monitoring
- Design a NSX solution with Cisco Nexus and Cisco UCS

Course Modules

1 Course Introduction <ul style="list-style-type: none"> • Introductions and course logistics • Course objectives 	5 VMware NSX Routing <ul style="list-style-type: none"> • NSX routing • NSX logical router • Layer 2 bridging • NSX Edge services gateway
2 VMware NSX Components for Management and Control <ul style="list-style-type: none"> • Introduction to VMware vSphere® virtualization • Evolution of the software-defined data center • Introduction to NSX • VMware NSX Manager™ • VMware NSX Controller™ cluster 	6 VMware NSX Edge Services Gateway Features <ul style="list-style-type: none"> • Network address translation • Load balancing • High availability • NSX Edge and VPN
3 Logical Switch Network <ul style="list-style-type: none"> • Ethernet fundamentals • Overview of VMware vSphere® Distributed Switch™ • Link aggregation • VLAN • VXLAN: Logical Switch Networks 	7 VMware NSX Security <ul style="list-style-type: none"> • NSX Edge firewall • NSX distributed firewall • Role-based access control • Service Composer • Security Monitoring
4 Nexus and UCS Architecture <ul style="list-style-type: none"> • Cisco Nexus switching architecture • Cisco UCS connectivity architecture • Cisco UCS profiles 	8 Extensibility and Design <ul style="list-style-type: none"> • VMware vSphere® API • NSX and Cisco design options



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