

VMware NSX: Install, Configure, Manage V6.x

This five-day, fast-paced course provides comprehensive training on installing, configuring and managing a VMware NSX® environment. This course covers the key features and functions offered in NSX 4 releases, including overall infrastructure, logical switching, logical routing, network and security services, firewalls and advanced threat defense, and more.

Course Contents

- Course Introduction
- VMware Virtual Cloud Network and VMware NSX
- Preparing the NSX Infrastructure
- NSX Logical Switching
- NSX Logical Routing
- NSX Bridging
- NSX Firewalls
- NSX Advanced Threat Prevention
- NSX Services
- NSX User and Role Management
- NSX Federation

E-Book You will receive the documentation of VMware in English language as an e-book.

Target Group

- Experienced Security Administrators or
- Network Administrators.

Prerequisites

- Good knowledge of TCP/IP services and protocols
- Knowledge and hands-on experience with computer networking, including switching and routing technologies (L2 to L3) and L2 to L7 firewall
- Knowledge and working experience with VMware vSphere® environments
- Knowledge and working experience with Kubernetes or VMware vSphere® with VMware Tanzu® environments Solid understanding of the concepts presented in the following courses:

- VMware Data Center Virtualization: Core Technical Skills
- Kubernetes Fundamentals

Course Target

Participation in this course is recommended to obtain the following certification: VMware Certified Professional Data Center Network (VCP-NV)

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:
www.expertech-training.com/go/VNS1

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

| Training | | Prices, excl. of V.A.T. |
|--|--|-------------------------|
| Classes in Germany | 5 Days | € 3,395 |
| Classes in Austria | 5 Days | € 3,395 |
| Online Training | 5 Days | € 3,395 |
| Date/course venue | Course language German  | |
| 02/06-06/06/25  Online | 15/09-19/09/25  Frankfurt | |
| 02/06-06/06/25  Wien | 15/09-19/09/25  Online | |
| 14/07-18/07/25  München | 03/11-07/11/25  Online | |
| 14/07-18/07/25  Online | 03/11-07/11/25  Wien | |

Status 05/07/2025



Table of Contents

VMware NSX: Install, Configure, Manage V6.x

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. Software-Defined Data Center

- Describe the software-defined data center concepts
- Describe the evolution of the software-defined data center
- Discuss VMware vSphere® virtualization
- Describe network virtualization

3. Networking Fundamentals

- Describe Ethernet switching fundamentals
- Describe the vSphere virtual networking
- Describe the vSphere distributed switches
- Identify the data center network topologies that are optimized for network virtualization

4. Management and Control Planes

- Describe the role of VMware NSX Manager™ and VMware NSX Controller™
- Identify NSX Controller clustering best practices
- Deploy the NSX Manager instance and the NSX Controller cluster

5. Logical Switch Networks

- Describe VXLAN protocol
- Identify VTEP functions
- Describe how NSX logical switches process Broadcast, Unknown unicast, and Multicast traffic
- Describe ARP suppression
- Compare unicast, multicast, and hybrid controller

replication modes

6. Distributed Logical Router

- Identify supported dynamic routing protocols
- Describe the role of the NSX logical router and NSX Edge gateway
- Diagram East-West and North-South traffic flows
- Describe the distributed logical router
- Describe the distributed logical router control virtual machine

7. NSX Edge Routing and High Availability

- Describe the features of the NSX Edge services gateway
- Configure static and dynamic routing on NSX Edge
- Describe NSX Edge network address translation operation
- Describe NSX Edge one-arm and inline load balancing
- Compare NSX Edge high availability modes
- Scale and place NSX Edge appliances

8. Virtual Private Networks

- Identify NSX VPN use cases
- Configure site-to-site IPsec VPNs
- Configure SSL VPNs for remote access
- Configure Layer 2 VPN

9. Layer 2 Bridging

- Describe Layer 2 bridging between VXLAN and VLAN
- Describe the traffic flow between VXLAN and VLAN

10. NSX Security

- Describe microsegmentation
- Compare NSX Edge and NSX Distributed Firewalls to traditional firewalls
- Configure NSX firewall policies
- Extend the functionality of NSX with Service Composer
- Configure security groups and security policies with Service Composer

11. Operations

- Implement NSX role-based access control
- Analyze NSX flow monitoring data
- Create or modify firewall rules from NSX flow monitoring data

12. Automation

- Describe VMware vRealize™ Orchestrator™
- Describe the vRealize Automation capabilities
- Describe how vRealize Automation and NSX interact

