

VMWARE NSX: TROUBLESHOOTING AND OPERATIONS [V4.X]

Course Code: 821691

Get the advanced knowledge, skills, and tools to competently operate and troubleshoot the VMware NSX® infrastructure.

This hands-on training course provides the advanced knowledge, skills, and tools to competently operate and troubleshoot the VMware NSX® infrastructure.

This course introduces you to workflows of various networking and security constructs along with several operational and troubleshooting tools that help you manage and troubleshoot your VMware NSX environment.

In addition, various types of technical problems are presented for you to identify, analyze, and solve through a systematic process.

Products alignment :

- VMware NSX 4.0.0.1
- VMware NSX 4.0.1

Updated July 2026

What You'll Learn

Upon successful completion of this training, participants should be able to:

- Use the native tools available in NSX to identify and troubleshoot problems
- Use VMware Aria Operations for Logs and VMware Aria Operations for Networks to identify and troubleshoot problems related to the NSX environment
- Explain NSX infrastructure components and communications between them
- Identify, analyze, and troubleshoot problems related to management, control, and data planes in NSX
- Identify, analyze, and troubleshoot problems related to infrastructure preparation and VMware NSX® Edge™ deployments
- Identify, analyze, and troubleshoot problems related to logical switching and logical routing
- Identify, analyze, and troubleshoot network security problems related to Distributed Firewalls, Gateway Firewalls, and Distributed IDS/IPS.
- Identify, analyze, and troubleshoot problems related to VPN and VMware NSX Advanced Load Balancer
- Identify the components and packet flows involved in the NSX datapath and troubleshoot related problems

Who Needs to Attend

- Experienced system administrators and network administrators
- Network and security professionals who work with enterprise networks

Prerequisites

Before taking this course, you must complete the course VMware NSX: Install, Configure, Manage [V4.0]

You should also have the following technical knowledge:

- Good understanding of TCP/IP services and protocols
- Knowledge and working experience of computer networking and security, including:
 - ☒ Switching and routing technologies (L2 and L3)
 - ☒ Network and application delivery services (L4 through L7)
 - ☒ Firewalling (L4 through L7)
 - ☒ VMware vSphere® environments

The VMware Certified Professional – Network Virtualization certification is recommended.

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VIRTUAL CLASSROOM LIVE

\$4,625 USD

5 Day

Virtual Classroom Live Outline

1. **Course Introduction**

- Introduction and course logistics
- Course objectives

2. **NSX Operations and Tools**

- Explain and validate the native troubleshooting tools for NSX
- Configure syslog, IPFIX, and log collections for the NSX environment
- Integrate NSX with VMware Aria Operations for Logs and VMware Aria Operations for Networks
- Validate and review the API methods available to configure the NSX environment

3. **Troubleshooting the NSX Management Cluster**

- Describe the NSX Management cluster architecture, components, and communication channels
- Identify the workflows involved in configuring the NSX Management cluster
- Validate and troubleshoot the NSX Management cluster formation

4. **Troubleshooting Infrastructure Preparation**

- Describe the data plane architecture, components, and communication channels
- Explain and troubleshoot VMware ESXi transport node preparation issues
- Explain and troubleshoot NSX Edge deployment issues

5. **Troubleshooting Logical Switching**

- Describe the architecture of logical switching
- List the modules and processes involved in configuring logical switching
- Explain the importance of VDS in transport nodes
- Review the architecture and workflows involved in attaching workloads to segments
- Identify and troubleshoot common logical switching issues

6. **Troubleshooting Logical Routing**

- Review the architecture of logical routing
- Explain the workflows involved in the configuration of Tier-0 and Tier-1 gateways
- Explain the high availability modes and validate logical router placements
- Identify and troubleshoot common logical routing issues using both BGP and OSPF

7. Troubleshooting Security

- Review the architecture of the Distributed Firewall
- Explain the workflows involved in configuring the Distributed Firewall
- Review the architecture of the Gateway Firewall
- Explain the workflows involved in configuring the Gateway Firewall
- Identify and troubleshoot common Distributed firewall and Gateway Firewall issues
- Review the architecture and workflows involved in configuring Distributed IDS/IPS
- Identify and troubleshoot common Distributed IDS/IPS problems.

8. Troubleshooting the NSX Advanced Load Balancer and VPN Services

- Review the NSX Advanced Load Balancer architecture and components
- Identify and troubleshoot common NSX Advanced Load Balancer issues
- Review the IPsec and L2 VPN architecture and components
- Identify and troubleshoot common IPsec and L2 VPN issues

9. Datapath Walkthrough

- Verify and validate the path of the packet on the NSX datapath
- Identify and perform packet captures at various points in the datapath
- Use NSX CLI and native hypervisor commands to retrieve configurations involved in the NSX datapath

Virtual Classroom Live Labs

- Labs exist for this course

Sep 21 - 25, 2026 | 10:00 AM - 6:00 PM EDT

Sep 21 - 25, 2026 | 10:00 AM - 6:00 PM EST

Oct 26 - 30, 2026 | 10:00 AM - 6:00 PM EST

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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