

[VMNSXTOV64]: VMware NSX: Troubleshooting and Operations [V6.4]

Length : 5 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This five-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competence in operating and troubleshooting the VMware NSX® 6.4 environment. In this course, you are introduced to several operational, management, and troubleshooting tools. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

Product Alignment

- NSX 6.4
- VMware vRealize® Network Insight™
- VMware vRealize® Log Insight™

Audience Profile

Network professionals who work with enterprise networks and VMware Sphere® 6.x

At Course Completion

- Establish and apply a structured approach and methodology for troubleshooting
- Troubleshoot NSX infrastructure and component problems
- Troubleshoot physical and logical networking problems involving switching and routing
- Troubleshoot advanced edge services
- Troubleshoot network security problems
- Use tools to monitor, operate, and troubleshoot NSX deployments

Certifications

This course prepares participants for the following certification:

- VMware Certified Advanced Professional 6 – Network Virtualization Deployment (VCAP6-NV Deploy)

Pre-Requisites

- Knowledge and working experience of computer networking, including:
 - Switching and routing technologies (L2-3)
 - Network and application delivery services (L4-7)

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- Knowledge and working experience of vSphere
- Knowledge and working experience of NSX installation, configuration, management, and operations

Before taking this course, you should attend either the VMware NSX: Install, Configure, Manage course or the VMware NSX for Internetworking Experts Fast Track course.

The VMware Certified Professional 6 – Network Virtualization (VCP6-NV) certification is recommended.

Course Outline

Module 1: Course Introduction

Lessons

- Introduction and course logistics
- Course objectives
- Resources and references
- Learning paths and certifications

Module 2: Troubleshooting Methodology

Lessons

- Develop a structured troubleshooting approach
- Differentiate between symptoms and root causes
- Identify and isolate problems residing in various areas
- Apply an appropriate methodology and procedure to troubleshooting

Module 3: NSX Troubleshooting and Operational Tools

Lessons

- Discuss NSX operational requirements
- Use the native NSX tools (such as the central CLI, the NSX dashboard, and Application Rule Manager) to solve various types of problems
- Use vRealize Network Insight to identify and analyze problems
- Use VMware vRealize® Log Insight™ Content Pack for NSX in troubleshooting and operations

Module 4: Troubleshooting and Operating NSX Infrastructure

Lessons

- Explain the NSX infrastructure and component communications
- Troubleshoot VMware NSX® Manager™ and the management plane
- Troubleshoot VMware NSX® Controller™ and the control plane
- Troubleshoot problems in host preparation

Module 5: Troubleshooting and Operating NSX Logical Switches

Lessons

- Explain VXLAN and logical switching components
- Verify the VXLAN and logical switch configuration and status

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- Identify and troubleshoot common layer 2 configuration errors
- Use the GUI, the CLI, packet capture, traceflow, and other tools to troubleshoot logical switching problems

Module 6: Troubleshooting and Operating NSX Logical Routers

Lessons

- Describe the NSX logical routing architecture
- Explain routing components, functions, and communications
- Verify logical router configuration settings
- Use packet capture on routers and perform packet walk
- Use the GUI, the CLI, traceflow, and other tools to troubleshoot logical routing problems

Module 7: Troubleshooting and Operating NSX Edge Services

Lessons

- Verify edge services (such as DHCP and DNS) configuration settings and operational status
- Troubleshoot various types of VPN services (SSL VPN-Plus, L2 VPN, and IPsec VPN)
- Verify the configuration and status of logical load balancers
- Troubleshoot common load-balancing and high availability scenarios

Module 8: Troubleshooting and Operating NSX Security Services

Lessons

- Discuss the NSX distributed firewall architecture, components, communication channels, and features
- Use the CLI and other tools to troubleshoot the configuration and operations of the NSX distributed firewall and the NSX Edge firewall
- Explain and troubleshoot the Service Composer components and architecture
- Troubleshoot common problems related to Identity Firewall
- Examine Guest Introspection architecture, components, services, and operations
- Verify Guest Introspection deployment configuration and functions, and troubleshoot common problems

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