



VMware NSX: Troubleshooting and Operations [V6.2]

Summary:

- Formats: **Classroom, Live Online, Onsite**
- Length: 5 Days

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® 6.2 environment. In this course, you will be presented with various types of technical problems. You will learn how to identify the problems and solve them through a systematic process. You will also learn about several operational, management, and troubleshooting tools.

Product Alignment

- VMware NSX 6.2
- VMware vRealize® Log Insight™ 3.0
- VMware vRealize® Network Insight™ 3.0

Objectives:

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

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

Certifications

This course prepares you for the following certification:

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

Intended Audience: Network professionals who work with enterprise networks and VMware Sphere®

Prerequisites:

- Understanding of layer 2-3 networking protocols, and switching and routing methodology
- Understanding of layer 4-7 network services
- Experience working with vSphere
- Understanding of the concepts presented in the VMware NSX: Install, Configure, Manage course or the VMware NSX for Internetworking Experts Fast Track course

VCP-NV certification is recommended.



Outline:

1. Course Introduction

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

2. Troubleshooting Methodology

- 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

3. Troubleshooting and Operating NSX Infrastructure

- Describe the NSX infrastructure and component communications
- Discuss common VMware NSX® Controller™ deployment problems
- Install NSX components for host preparation
- Troubleshoot host preparation problems
- Troubleshoot management and control plane synchronization problems
- Introduce the NSX central CLI

4. Troubleshooting and Operating NSX Logical Switches

- Describe the VXLAN architecture
- Create logical switches
- Troubleshoot the logical switch control plane and the data plane
- Use the central CLI to troubleshoot logical switch problems

5. Troubleshooting and Operating NSX Logical Routers

- Describe the NSX logical routing architecture
- Understand logical routing prerequisites
- Understand the VMware NSX® Manager™ plug-in for VMware NSX® Edge™
- Gather logical routing information for operations and troubleshooting
- Explain the logical routing subsystem
- Use the CLI to troubleshoot problems related to the controller and the control



VM

- Troubleshoot routing subsystem component failures
- Use tools such as logs and packet capture to identify and solve routing problems

6. Troubleshooting and Operating NSX Security Services

- Discuss the NSX distributed firewall components and communication channels
- Validate and troubleshoot distributed firewall configurations
- Understand the SpoofGuard and identity firewall functions
- Discuss distributed firewall thresholds, availability, and operations
- Discuss Service Composer components and troubleshoot Service Composer problems
- Explain Guest Introspection architecture, components, and deployment details
- Discuss third-party integration and automation
- Understand the distributed firewall monitoring and logging architecture
- Use the CLI to troubleshoot edge services gateway firewall operations

7. Troubleshooting and Operating NSX Edge Services

- Identify and troubleshoot NSX Edge high availability models
- Understand ECMP and handle routing failures
- Troubleshoot edge services such as DHCP and DNS
- Troubleshoot various types of VPN services
- Discuss and troubleshoot common load-balancing problems
- Use the coredump tool in problem solving

8. vRealize Operational Tools for NSX Operations Management

- Discuss NSX operational requirements and tools overview
- Introduce vRealize Network Insight
- Introduce vRealize Log Insight Content Pack for VMware NSX