VMware NSX: Troubleshooting and Operations

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 will be 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.

Course 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
- Explain the native NSX tools, VMware vRealize® Suite tools, and partner tools that are useful for monitoring, troubleshooting, and operations
- Explain the NSX infrastructure components and the communications between them
- Identify, analyze, and troubleshoot problems related to the NSX management, control, and data planes
- Identify, analyze and troubleshoot problems related to NSX logical switching, logical routing, and VMware NSX® Edge[™] services
- Identify, analyze, and troubleshoot network security problems related to the NSX distributed firewall and the NSX Edge firewall

Target Audience

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

Prerequisites

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

Before taking this course, you ought to take either the <u>VMware NSX: Install, Configure, Manage</u> course or the <u>VMware NSX for Internetworking Experts Fast Track</u> course.

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

Certifications

This course prepares you for the following certification:

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



Course Delivery Options

- Classroom
- Live Online
- Onsite

Product Alignment

- NSX 6.4
- VMware vRealize® Network Insight[™] 3.6
- VMware vRealize® Log Insight[™] 4.5

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Course Modules

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 **NSX Troubleshooting and Operational Tools**

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

Troubleshooting and Operating NSX 4 Infrastructure

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

5 Troubleshooting and Operating NSX Logical Switches

- Explain VXLAN and logical switching components
- Verify the VXLAN and logical switch configuration and status
- Identify and troubleshoot common layer 2 configuration errors
- Use the GUI, the CLI, packet capture, traceflow, and other tools to troubleshoot various logical switching problems
- Troubleshooting and Operating NSX Logical 6 Routers
 - 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 various logical routing problems
- 7 **Troubleshooting and Operating NSX Edge** Services
 - 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
- 8 Troubleshooting and Operating NSX Security Services
 - 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

Contact

If you have questions or need help registering for this course, click here.

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