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.

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 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.

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
- On Demand

Product Alignment
- NSX 6.4
- VMware vRealize® Network Insight™
- VMware vRealize® Log Insight™
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, 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

4 Troubleshooting and Operating NSX Infrastructure
   - 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

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 logical switching problems

6 Troubleshooting and Operating NSX Logical 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 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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