Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware NSX: Troubleshooting and Operations [V6.3]

CODE:	LENGTH:	PRICE:
VM-NSX-TSO-V6.3	40 Hours (5 days)	$4,625.00

Description

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® 6.3 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 be introduced to several operational, management, and troubleshooting tools.

Objectives

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

Audience

Network professionals who work with enterprise networks and VMware Sphere®

Prerequisites

• Understanding of layers 2 through 3 networking protocols, and switching and routing methodology
• Understanding of layers 4 through 7 network services
• Understanding of the concepts presented in the VMware NSX: Install, Configure, Manage course or the VMware NSX for Internetworking Experts Fast Track course, or equivalent networking and vSphere experience
VCP6-NV certification is recommended.

Programme

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

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

Troubleshooting and Operating NSX Infrastructure
• Describe the NSX infrastructure and component communications
• Describe NSX and vSphere distributed switches
• Explain VMware NSX® Manager™ to VMware vCenter Server® connectivity
• Identify vSphere 6.5 compatibility with NSX 6.3
• Explain control plane agent autorecovery

Troubleshooting and Operating NSX Logical Switches
• Describe the components involved in NSX logical switching
• Describe the logical switching control plane operations
• Explain the management plane operations and solve NSX Manager issues
• Describe user world agents and their functions
• Configure vSphere distributed switches for VXLAN
• Back up and restore vSphere distributed switch configurations
Troubleshooting and Operating NSX Logical Routers
• Describe the communications between routing components
• Differentiate between the distributed logical router (DLR) and the edge services gateway (ESG)
• Describe DLR packet flow
• Describe ESG and DLR packet flow with ECMP enabled
• Describe the prerequisites for logical routing
• Correctly configure the transport zone
• Understand the rules of DLR
• Describe VMware NSX® Edge™ nodes
Troubleshooting and Operating NSX Security Services
• Explain the DFW dependency on NSX Manager
• Explain how DFW and NSX Edge firewall rules are managed by NSX Manager
• Explain the architecture of guest introspection with third-party devices
• Understand VMware Tools™ and the NSX thin agent
• Explain how NSX service chaining dynamically responds to changing security conditions
• Describe automated security operations
• Explain how DFW, the filtering module, and the traffic redirection modules work together
• Describe the changes in the DFW packet log format
Troubleshooting and Operating NSX Edge Services
• Use the GUI and the CLI to verify DHCP relay configuration
• Verify the settings of a DHCP server
• Describe the SSL VPN-Plus remote access solution available on ESG
• Describe the L2 VPN features and explain how they work
• Properly configure L2 VPN service
• Configure the SSL VPN-Plus server and clients
• Properly configure IPsec VPN tunnels between sites
• Use the GUI, CLI commands, and logs to examine IPsec VPN tunnel status and statistics
• Differentiate between L4 and L7 load balancing
• Explain how high availability works
• Analyze common high-availability configuration issues and provide solutions
vRealize Operational Tools for NSX Operations Management
• Discuss NSX operational requirements and tools overview
• Introduce vRealize Network Insight
• Introduce VMware vRealize® Log Insight™ Content Pack for VMware NSX
• Introduce VMware vRealize® Operations Manager™ Content Pack for VMware NSX

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.