

5 Days

## VMware NSX: Troubleshooting and Operations [V6.2]

VMware NSX Troubleshooting & Operations [v6.2] is an expert level, five-day course that imparts advanced knowledge and core skills in troubleshooting and operating the VMware NSX infrastructure.

This training course will expose participants to various technical problems and also teach them to solve those problems through well-defined methodologies. Through this course, participants get an understanding of how VMware NSX integrates with VMware vRealize® Log Insight™, VMware vRealize® Operations Manager™, and other management tools.

This course will prepare candidates for the following certification:

- VMware Certified Implementation Expert — Network Virtualization (VCIX-NV)

## Course Details

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### Course Outline

#### 1. Course Introduction

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

#### 2. Troubleshooting Methodology

- Developing a structured troubleshooting approach
- Differentiating between symptoms and root causes
- Identify and isolate problems residing in various areas
- Applying an appropriate methodology and procedure to troubleshooting

#### 3. Troubleshooting and Operating NSX Infrastructure

- Introducing the NSX central CLI
- 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

#### **4. Troubleshooting and Operating NSX Logical Switches**

- Creating logical switches
- Describing the VXLAN architecture
- Troubleshoot the logical switch control plane and the data plane
- Deploy the central CLI to troubleshoot logical switch problems

#### **5. Troubleshooting and Operating NSX Logical Routers**

- Describe the NSX logical routing architecture
- Understand logical routing pre requisites
- Understand the VMware NSX® Manager™ plug-in for VMware NSX® Edge™
- Gather logical routing information for operations and troubleshooting
- Deploy the CLI to troubleshoot problems related to the controller and the control VM
- Troubleshoot routing subsystem component failures
- Deploy tools such as logs and packet capture to identify and solve routing problems

#### **6. Troubleshoot and Operate 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
- Deploy the CLI to troubleshoot edge services gateway firewall operations

#### **7. Troubleshoot and Operate 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

#### **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

## **Who Should Attend**

Network professionals actively working with enterprise networks and VMware Sphere®

## Pre Requisite

- ?Experience working with vSphere
- Understanding of layer 4-7 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
- Understanding of layer 2-3 networking protocols, and switching and routing methodology
- VCP-NV certification is recommended.

## Exams

VMware Certified Professional (VCP) [VCIX-NV]

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