Tytuł szkolenia: VMware NSX - Troubleshooting and Operations [V6.4]

Kod szkolenia: EDU-NSXTO64

Wprowadzenie

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.

Adresaci szkolenia

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)

Cel szkolenia

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

Czas i forma szkolenia

- 35 godzin (5 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

Plan szkolenia

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