Szkolenie: HPE
VMware NSX: Install, Configure, Manage

**FORMA SZKOLENIA** | **MATERIAŁY SZKOLENIOWE** | **CENA** | **CZAS TRWANIA**
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Stacjonarne | Tradycyjne | 8800 PLN NETTO* | 5 dni
Stacjonarne | Tablet CTAB | 9400 PLN NETTO* | 5 dni
Metoda dLearning | Tradycyjne | 8800 PLN NETTO* | 5 dni
Metoda dLearning | Tablet CTAB | 9400 PLN NETTO* | 5 dni

*Lokalizacje*

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

**Cel szkolenia:**

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

- Configure and deploy NSX components for management and control
- Describe basic NSX layer 2 networking
- Configure, deploy, and use logical switch networks
- Configure and deploy NSX distributed router appliances to establish east-west connectivity
- Configure and deploy VMware NSX® Edge™ services gateway appliances to establish north-south connectivity
- Configure NSX L2 bridging
- Configure and use all main features of the NSX Edge services gateway
- Configure NSX Edge firewall rules to restrict network traffic
- Configure NSX distributed firewall rules to restrict network traffic
- Configure Service Composer policies
- Configure an identity-aware firewall
- Describe NSX data security
- Use the cross-vCenter NSX feature

**Audience**

Experienced system or network administrators

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* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)
Plan szkolenia:

- Course Introduction
  - Introductions and course logistics
  - Review course objectives

- Introduction to vSphere Networking
  - Describe VMware vSphere® networking components
  - Describe vSphere standard switches
  - Describe vSphere distributed switches

- Introduction to NSX
  - Describe the benefits of NSX
  - Identify NSX key use cases

- NSX Architecture
  - Describe the NSX architecture
  - Describe the cloud management, management, control, and data planes of NSX
  - Identify the component interactions
  - Describe the VMware NSX® Controller™ cluster and its functions
  - Explain the NSX Controller workload distribution

- NSX Infrastructure Preparation
  - Explain the steps required for an NSX installation
  - Describe what is involved in planning an NSX deployment
  - Describe the NSX Controller cluster and deployment
  - Describe NSX Controller cluster high availability and load distribution
  - Explain how to deploy and configure the NSX Controller cluster
  - Explain the workflow involved in host preparation

- NSX Logical Switch Networks
  - Explain transport zones, VXLANs, and VXLAN tunnel End Points (VTEPs)
  - Describe the procedure for preparing the infrastructure for virtual networking
  - Describe the configuration of vSphere distributed switches for VXLAN
  - Identify the components involved in NSX logical switching
  - Define VLANs for VXLAN

- NSX Logical Routing
  - Explain the east-west and north-south routing concepts
  - Define the NSX distributed logical router
  - Explain the logical router, interfaces, and interface addresses
  - Describe the management and control plane interaction
- Describe logical router deployment models and two-tier routing for east-west traffic
- Explain the common topologies of an NSX Edge services gateway

- **Advanced NSX Logical Routing**
  - Describe how routers connect remote networks
  - Explain route redistribution methods
  - Describe less-than-or-equal (LE) and greater-than-or-equal (GE) configurations
  - Describe routing event notification enhancements
  - Configure equal-cost multipath (ECMP) routing
  - Describe high availability for NSX Edge service gateways

- **NSX L2 Bridging**
  - Explain L2 bridging use cases
  - Describe software and hardware L2 bridging between VXLAN and VLANs
  - Discuss L2 bridging packet flows

- **NSX Edge Services**
  - Describe the NSX Edge services
  - Explain how Network Address Translation (NAT) works
  - Explain NAT64
  - Explain the function of load balancing
  - Explain one-armed and inline load-balancing architectures
  - Explain the DHCP and DNS services for NSX Edge

- **NSX Edge VPN Services**
  - Describe the NSX Edge VPN services
  - Describe the VPN use cases
  - Configure a L2 VPN on an NSX Edge instance
  - Configure an NSX Edge instance for IPsec VPN services
  - Explain NSX Edge SSL VPN-Plus services
  - Configure NSX Edge SSL VPN-Plus server settings

- **NSX Security Services**
  - Describe the policy enforcement of the distributed firewall
  - Describe virtualization context-awareness
  - Explain custom network and security containers
  - Describe the architecture of an NSX Edge firewall
  - Explain DHCP snooping
  - Explain ARP snooping

- **NSX Advanced Security Services**
  - Describe NSX SpoofGuard
- Identify how tags enable dynamic security service chains
- Explain Service Composer groups, policies, and tags
- Describe the Identity Firewall architecture
- Explain Application Rule Manager
- Explain how to create a monitoring session

- **NSX Introspection Services**
  - Describe the types of introspection services
  - Describe the installation and configuration of Guest and Network Introspection
  - Summarize Guest and Network Introspection alarms, events, and audit messages

- **Cross-vCenter NSX**
  - Describe cross-vCenter features and use cases
  - Identify VMware NSX® Manager™ roles and NSX Controller cluster placement
  - Deploy universal logical networks
  - Explain the design considerations for cross-vCenter NSX

**Wymagania:**

This course requires completion of one of the following prerequisites:

- Understanding of enterprise switching and routing
- Knowledge of TCP/IP services
- Experience with firewalls and firewall rule sets
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course
- Understanding of the concepts presented in the VMware Introduction to Network Virtualization with NSX course

**Poziom trudności**

[Scale indicators]

**Certyfikaty:**

After completing the course, participants receive a certificate of completion of course.

**Prowadzący:**

Authorized VMware Trainer.