

# **Enterprise Computing Solutions - Education Services**

# TRAINING OFFERING

Skontaktuj się z nami

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# VMware NSX-T Data Center: Install, Configure, Manage [V3.2]

Kod: Czas trwania: Cena netto:

VMW NSXTICM32 40 Hours (5 days) zł9,300.00

#### **Description**

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-T Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.2 release, including the overall infrastructure, logical switching, logical routing, networking and security services, firewalls and advanced threat prevention, and more.

#### Cel szkolenia

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

- Describe the architecture and main components of NSX-T Data Center
- Explain the features and benefits of NSX-T Data Center
- Deploy the NSX Management cluster and VMware NSX® Edge™nodes
- Prepare VMware ESXi™and KVM hosts to participate in NSX-T Data Center networking
- · Create and configure segments for layer 2 forwarding
- · Create and configure Tier-0 and Tier-1 gateways for logical routing
- Use distributed and gateway firewall policies to filter east-west and north-south traffic in NSX-T Data Center
- Configure Advanced Threat Prevention features
- Configure network services on NSX Edge nodes
- Use VMware Identity Manager and LDAP to manage users and access
- Explain the use cases, importance, and architecture of Federation

#### Uczestnicy

Experienced security administrators or network administrators.

#### Wymagania wstępne

- Good understanding of TCP/IP services and protocols
- Knowledge and working experience of computer networking, including switching and routing technologies (L2-L3) and L2-L7 firewall
- Knowledge and working experience with VMware vSphere® environments
- · Knowledge and working experience with Kubernetes or vSphere with VMware Tanzuenvironments

### Program szkolenia

1 Course Introduction

#### 2 VMware Virtual Cloud Network and NSX-T Data Center

- Introduce the VMware Virtual Cloud Network vision
- Discuss NSX-T Data Center solutions, use cases, and benefits
- Explain NSX-T Data Center architecture and components
- Introductions and course logistics Describe the VMware NSXTM product portfolio and features
- Course objectives
  Explain the management, control, data, and consumption planes and function

#### Page 2 of 4

#### 3 Preparing the NSX-T Data Center Infrastructure

- Describe NSX Management Cluster
- Deploy VMware NSXTM ManagerTM nodes on VMware ESXi and KVM hypervisors
- · Navigate through the NSX Manager UI
- Explain data-plane components such as
  - N-VDS/VDS, transport nodes, transport zones, profiles, and more
- Perform transport node preparation and establish the data center infrastructure
- · Verify transport node status and connectivity

#### 4 NSX-T Data Center Logical Switching

- · Introduce key components and terminology in logical switching
- Describe the function and types of L2 segments
- Explain tunneling and the GENEVE encapsulation
- · Configure logical segments and attach hosts using NSX Manager UI
- · Describe the function and types of segment profiles
- · Create segment profiles and apply them to segments and ports
- Explain the function of MAC, ARP, and TEP tables used in packet forwarding
- · Demonstrate L2 unicast packet flow
- · Explain ARP suppression and BUM traffic handling

#### **5 NSX-T Data Center Logical Routing**

- · Describe the logical routing function and use cases
- Introduce the two-tier routing architecture, topologies, and components
- Explain the Tier-0 and Tier-1 Gateway functions
- Describe the logical router components: Service Router and Distributed Router
- · Discuss the architecture and function of NSX Edge nodes
- · Discuss deployment options of NSX Edge nodes
- Configure NSX Edge nodes and create NSX Edge clusters
- Configure Tier-0 and Tier-1 Gateways
- Examine the single-tier and multitier packet flow
- · Configure static routing and dynamic routing, including BGP and OSPF
- Enable ECMP on Tier-0 Gateway
- Describe NSX Edge HA, failure detection, and failback modes
- Configure VRF Lite

#### 7 NSX-T Data Center Firewalls

- Describe NSX segmentation
- Identify the steps to enforce Zero-Trust with NSX segmentation
- Describe the Distributed Firewall architecture, components, and function
- Configure Distributed Firewall sections and rules
- Configure the Distributed Firewall on VDS
- Describe the Gateway Firewall architecture, components, and function
- · Configure Gateway Firewall sections and rules

#### 8 NSX-T Data Center Advanced Threat Prevention

- Explain NSX IDS/IPS and its use cases
- Configure NSX IDS/IPS
- Deploy the NSX Application Platform
- Identify the components and architecture of NSX Malware Prevention
- Configure NSX Malware Prevention for east-west and north-south traffic
- · Describe the use cases and architecture of NSX Intelligence
- · Identify the components and architecture of VMware NSX Network Detection and Response
- Use NSX Network Detection and Response to analyze network traffic events.

#### 9 NSX-T Data Center Services

- Describe NSX-T Data Center services
- Explain and configure Network Address Translation (NAT)
- Explain and configure DNS and DHCP services
- Describe VMware NSX® Advanced Load Balancer™ architecture, components, topologies, and use cases.
- Configure NSX Advanced Load Balancer
- Discuss the IPSec VPN and L2 VPN function and use cases
- Configure IPSec VPN and L2 VPN using the NSX Manager UI

#### 10 NSX-T Data Center User and Role Management

- Describe the function and benefits of VMware Identity Manager™ in NSX-T Data Center
- Integrate VMware Identity Manager with NSX-T Data Center
- Integrate LDAP with NSX-T Data Center
- Identify the various types of users, authentication policies, and permissions
- Use role-based access control to restrict user access

#### 11 NSX-T Data Center Federation

- Introduce the NSX-T Data Center Federation key concepts, terminology, and use-cases.
- Explain the onboarding process of NSX-T Data Center Federation
- Describe the NSX-T Data Center Federation switching and routing functions.
- Describe the NSX-T Data Center Federation security concepts.

#### 6 NSX-T Data Center Bridging

- · Describe the function of logical bridging
- · Discuss the logical bridging use cases
- Compare routing and bridging solutions
- Explain the components of logical bridging
- Create bridge clusters and bridge profiles

## **Terminy**

Na żądanie. <u>Prosimy o kontakt</u>

## **Dodatkowe informacje**

Jeśli interesują Cię inne szkolenia tego producenta - skontaktuj się z nami.