Tytuł szkolenia: NSX: Install, Configure, Manage [V6.2]

Kod szkolenia: VT-NSX-ICM62

Wprowadzenie

This five-day course, designed for experienced VMware vSphere® users, teaches you how to use VMware vRealize® Operations Manager™ as a forensic and predictive tool. Based on VMware ESXi™ 6, VMware vCenter Server® 6, and vRealize Operations Manager 6.2, this course includes instruction on advanced capabilities, including customization and management.

Adresaci szkolenia

Experienced system administrators that specialize in networking

Cel szkolenia

- Describe the evolution of the software-defined data center
- Describe how VMware NSX is the next step in the evolution of the SDDC
- Describe the data center prerequisites for VMware NSX deployment
- Configure and deploy VMware NSX components for management and control
- Describe basic VMware NSX Layer 2 networking
- Configure, deploy, and use logical switch networks
- Configure and deploy VMware NSX distributed router appliances to establish East-West connectivity
- Configure and deploy VMware NSX Edge™ services gateway appliances to establish North-South connectivity
- Configure VMware NSX Layer 2 bridging
- Configure and use all main features of the NSX Edge services gateway
- Configure NSX Edge firewall rules to restrict network traffic
- Configure VMware NSX distributed firewall rules to restrict network traffic
- Configure Service Composer policies
- Configure an identity-aware firewall

Czas i forma szkolenia

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

Plan szkolenia

1. Course Introduction
   a. Introductions and course logistics
   b. Course objectives
2. Software-Defined Data Center
   a. Describe the evolution of the software-defined data center
   b. Describe VMware vSphere®
   c. Describe VMware NSX
3. Management and Control Plane Components
   a. Understand the management, control, and data planes
   b. Describe VMware NSX Manager™
   c. Describe the VMware NSX Controller™ cluster4 Logical Switch Networks
   d. Describe Ethernet fundamentals
   e. Describe VMware vSphere® Distributed Switch™
   f. Describe switch link aggregation
   g. Describe VLAN
   h. Describe VXLAN: Logical Switch Networks

          i. Describe the VMware NSX Controller replication
4. VMware NSX Logical Routing
   a. Discuss routing protocols
   b. Describe the VMware NSX logical router
   c. Describe the NSX Edge services gateway
5. VMware NSX L2 Bridging
   a. Understand L2 bridging and use cases
   b. Describe Layer 2 software bridging
   c. Describe Layer 2 hardware bridging
6. Edge Gateway Services
   a. Describe Network Address Translation
   b. Describe load balancing
   c. Describe high availability
   d. Describe virtual private networking
   e. Configure Layer 2 VPN
   f. Configure IPsec VPN
   g. Configure SSL VPN-Plus
7. VMware NSX Firewall and Security Services
   a. Describe the NSX Edge firewall
   b. Describe the VMware NSX distributed firewall
   c. Describe VMware NSX Data Security
   d. Describe Activity Monitoring
   e. Describe Service Composer
   f. Describe the identity-aware firewall
8. Operations and Monitoring Tools
   a. Describe the VMware NSX component backup and availability
   b. Describe role-based access control
   c. Identify the monitoring tools
   d. Describe Flow Monitoring
9. Multi-vCenter for VMware NSX)
   a. Understand the Multi-vCenter for VMware NSX feature
   b. Identify the benefits of the Multi-vCenter for VMware NSX feature
   c. Configure the Multi-vCenter for VMware NSX feature
   d. Discuss the deployment models for Multi-vCenter for VMware NSX
10. VMware NSX and vRealize Automation
    a. Understand vRealize Automation
    b. Understand VMware NSX and vRealize Automation integration
    c. Identify the benefits of VMware NSX and vRealize Automation integration
    d. Identify vRealize Automation and VMware NSX application deployment topologies
11. VMware NSX and Physical Data Center Network
    a. Understand data center components
    b. Understand data center underlay network architectures
    c. Discuss data center scalability

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