Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware NSX: Install Configure Manage [V6.4]

CODE:	LENGTH:	PRICE:
VMW_NSXICM64	40 Hours (5 days)	kr38,000.00

Description

This five-day, comprehensive, fast-paced training course presents VMware NSX as a part of the software-defined data center. You will learn how to use logical switching in VMware NSX to virtualize your switching environment. The course also details logical routing to enable you to dynamically route between different virtual environments. You will also learn how to use gateway services, firewall configurations, and security services to help secure and optimize your VMware NSX environment.
Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.
Product Alignment
- VMware NSX 6.4

Objectives

Introductions and course logistics
Course Introduction Review course objectives Introduction to vSphere Networking
Describe VMware vSphere® networking components
Describe vSphere standard switches
Describe vSphere distributed switches
Explain the function VMkernel ports provide
Explain the services provided by VMkernel ports Introduction to NSX
Explain what is missing in data centers today
Describe how network virtualization can help data centers
Explain how the new complete SDDC model improves data center operations
Describe the benefits of NSX
Identify NSX key use cases NSX Architecture
Describe the NSX architecture
Identify the planes of NSX operations
Summarize the planes of NSX operations
Identify the components of each plane
Summarize the deployment of NSX Manager
Describe the deployment of the control plane
Identify and describe user world agents
List the data plane components NSX Infrastructure Preparation
Describe the NSX installation overview
Identify what is involved in planning an NSX deployment
Verify the NSX Manager and vCenter Server registration
Describe the deployment and verification of the NSX Controller cluster NSX Logical Switch Networks
Describe the switching challenges in current data centers
Explain TZ, VTEP, and VXLAN
Describe the procedure of preparing the infrastructure for virtual networking
Summarize logical switching segment ID pools and address ranges
Discuss the NSX replication modes
Configure VXLAN transport parameters
Explain the VXLAN Network Identifier (VNI)
Define VLANs for VXLAN
Explain the special CDO logical switch and transport parameters
Explain logical switch packet walks NSX Logical Routing

Describe the routing challenges in current data centers
Explain Hairpinning
Describe the East-West and North-South routing concepts
Define the NSX Distributed Logical Router
Define the NSX Edge services gateway
Explain the work flows of a DLR
Explain the logical router, interfaces, and interface addresses
Describe the logical router traffic flow on the same hosts and Between different hosts
Describe logical router deployment models
Explain the packet flows of an NSX Edge services gateway
Explain the common topologies of an NSX Edge services gateway Advanced NSX Logical Routing
Explain static and dynamic routing
Describe DLR and NSX Edge static and dynamic routing configuration
Explain OSPF and BGP routing protocols
Explain ingress and egress traffic flows
Describe and configure Equal-Cost Multipathing
Describe high availability for DLR and 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
Describe source and destination NAT
Explain NAT64 NSX Edge VPN Services
Describe the NSX Edge VPN Services
Describe the VPN use cases
Explain NSX IPsec VPN services
Describe the IPsec security protocols: Encapsulating Security Payload
Configure an NSX Edge for IPsec VPN services
Explain NSX Edge L2 VPN services
Configure a L2 VPN on an NSX Edge
Explain NSX Edge SSL VPN-Plus services
Explain the SSL VPN-Plus client and installation package
Configure NSX Edge SSL VPN-Plus server settings NSX Security Services
Describe SDDC security challenges
Explain the evolution of firewalls
Describe the NSX logical firewalls
Describe the Distributed Firewall architecture
Explain how to work with firewall rule sections
Differentiate L2 and L3 firewall rules
Describe exclusion lists
Explain L7 filtering in the DFW
Define an IP address, MAC address, a security, and service group
Describe the VMware Tools IP address discovery method
Explain DHCP and ARP snooping NSX Advanced Security Services
Describe NSX SpoofGuard
Explain how to enable NSX SpoofGuard
Describe the NSX Identity Firewall
Explain how Identity Firewall works with AD
Discuss RDSH and its use in Identity Firewall
Explain Application Rule Manager
Describe the selection of virtual machines for Application Rule Manager
Explain how to create a monitoring session
Describe the publication of firewall rules from Application Rule Manager NSX Introspection Services
Describe the types of introspection services
Describe the installation and configuration of Guest and Network Introspection
Explain service chaining
Define the available advanced services
Describe Guest Introspection services
Describe Network Introspection services
Describe how to view the status 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
Describe the components involved in cross-vCenter NSX
Identify NSX Manager roles and NSX Controller cluster placement
Deploy universal logical networks
Describe the deployment models available for cross-vCenter NSX
Explain the design considerations for cross-vCenter NSX

Audience

Experienced system or network administrators

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

Programme

By the end of the course, you should be able to meet the following objectives:
- 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 L2 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
- Describe VMware NSX data security
- Use the cross-vCenter VMware NSX feature

This course prepares you for the following certification:
- VMware Certified Professional 6 – Network Virtualization (VCP6-NV)

Options

• VMware Certified Professional 6 – Network Virtualization (VCP6-NV)

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
29 Mar 2024			English	Self Paced Training		kr43,000.00

Ytterligare information

Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.