

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Kronborgsgränd 7, 164 46 Kista

Email: edu.ecs.se@arrow.com Phone: +46 8 555 188 00



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	Туре	Guaranteed	PRICE
24 Apr 2024			English	Self Paced Training		kr43,000.00

Ytterligare information

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