

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware NSX for Internetworking Experts Fast Track [V6.1]

CODE: LENGTH: PRICE:

VM-NSX-IEFT-61 40 Hours (5 days) \$6,475.00

Description

This comprehensive, fast-paced training course focuses on installing, configuring, and managing VMware NSX™. This course covers NSX as a part of the software-defined data center platform, implementation use cases along with features of NSX, and functionality operating at Layer 2 through Layer 7 of the OSI model.

Data center network architectures are examined to demonstrate how NSX intersects with and virtualizes functions of a Cisco-based infrastructure in spine-leaf and traditional core-aggregate-access architectures. Lecture and hands-on lab activities support the student's understanding of NSX features, functionality, and on-going management and control. For advanced course options, go to www.vmware.com/education.

Objectives

- Describe the software-defined data center Describe how NSX is the next step in the evolution of the software-defined data center
- Describe features and benefits of NSX network virtualization Identify prerequisites for NSX Configure and deploy NSX management, control, and data plane components Configure, deploy, and use logical switch networks Configure, deploy, and use logical switch networks in a UCS environment Describe the Cisco Nexus and UCS products and features that are relevant to NSX Configure and deploy NSX distributed router to optimize East-West data center traffic flows Configure and deploy VMware NSX Edge™ services gateway appliances Configure and use NSX virtual private networks Configure and use logical load balancing Configure NSX Edge Firewall and Distributed Firewall policy rules Configure Service Composer security groups and policies Use role-based access to control user account privileges Use activity monitoring to validate and create security policies Describe how VMware vRealize™ Automation and NSX enable automated provisioning of IT services and networks Design a NSX solution with Cisco Nexus and Cisco UCS

Audience

Experienced system administrators that specialize in networking

Prerequisites

• System administration experience on Microsoft Windows or Linux operating systems. • Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification. • A solid background in a Cisco-based infrastructure or NSX: Install, Configure, Manage [V6.1].

Programme

- 1.Course Introduction •Introductions and course logistics •Course objectives
- 2.Software-Defined Data Center •Describe the software-defined data center concepts •Describe the evolution of the software-defined data center •Discuss VMware vSphere® virtualization •Describe network virtualization
- 3.vSphere Networking Fundamentals •Describe vSphere virtual networking •Describe vSphere distributed switches
- 4.Management and Control Planes ∘Describe the role of VMware NSX Manager™ and VMware NSX Controller™ ∘Identify NSX Controller clustering best practices ∘Deploy the NSX Manager instance and the NSX Controller cluster
- 5.Logical Switch Networks •Describe VXLAN protocol •Identify VTEP functions •Describe how NSX logical switches process Broadcast, Unknown unicast, and Multicast traffic •Describe ARP suppression •Compare unicast, multicast, and hybrid controller replication modes
- 6.Nexus and UCS Architecture Describe a Cisco Nexus switching architecture Identify a Cisco UCS connectivity architecture Describe Cisco UCS profiles
- 7.Distributed Logical Router Describe the role of the NSX logical router and NSX Edge gateway Diagram East-West and North-South traffic flows Describe the distributed logical router Describe the distributed logical router router Describe the distributed logical router Describe the De

8.NSX Edge Routing and High Availability •Describe the features of the NSX Edge services gateway •Configure static and dynamic routing on NSX Edge •Describe NSX Edge network address translation operation •Describe NSX Edge one-arm and inline load balancing •Compare NSX Edge high availability modes •Scale and place NSX Edge appliances

9.Virtual Private Networks •Identify NSX VPN use cases •Configure site-to-site IPsec VPNs •Configure SSL VPNs for remote access •Configure Layer 2 VPN

10.Layer 2 Bridging Describe Layer 2 bridging between VXLAN and VLAN Describe the traffic flow between VXLAN and VLAN 11.NSX Security Describe microsegmentation Compare NSX Edge and NSX Distributed Firewalls to traditional firewalls Configure NSX firewall policies Extend the functionality of NSX with Service Composer Configure security groups and security policies with Service Composer

12.Operations •Implement NSX role-based access control •Analyze NSX flow monitoring data •Create or modify firewall rules from NSX flow monitoring data

13.Automation ∘Describe VMware vRealize™ Orchestrator™ ∘Describe the vRealize Automation capabilities ∘Describe how vRealize Automation and NSX interact

14.Extensibility and Design ∘Describe VMware NSX API™ ∘Identify the NSX and Cisco design options

Test and Certification

• Describe the software-defined data center • Describe how NSX is the next step in the evolution of the software-defined data center • Describe features and benefits of NSX network virtualization • Identify prerequisites for NSX • Configure and deploy NSX management, control, and data plane components • Configure, deploy, and use logical switch networks • Configure, deploy, and use logical switch networks in a UCS environment • Describe the Cisco Nexus and UCS products and features that are relevant to NSX • Configure and deploy NSX distributed router to optimize East-West data center traffic flows • Configure and deploy VMware NSX Edge ™ services gateway appliances • Configure and use NSX virtual private networks • Configure and use logical load balancing • Configure NSX Edge Firewall and Distributed Firewall policy rules • Configure Service Composer security groups and policies • Use role-based access to control user account privileges • Use activity monitoring to validate and create security policies • Describe how VMware vRealize™ Automation and NSX enable automated provisioning of IT services and networks • Design a NSX solution with Cisco Nexus and Cisco UCS

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.