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VMware NSX-T Data Center: Install, Configure, Manage [V2.4]

CODE:	DURÉE:	PRIX H.T.:
VMW_NSXTICM24	40 Hours (5 Jours)	€4,440.00

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 2.4 release, including the overall infrastructure, logical segments, logical routers, networking and security services, micro-segmentation and firewalls, and so on.

Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Objectifs

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

- Describe VMware Virtual Cloud Network and the NSX-T Data Center architecture
- Describe the NSX-T Data Center components and main functions • Explain the NSX-T Data Center key features and benefits
- Deploy and configure NSX-T Data Center infrastructure • Configure layer 2 logical segmenting and bridging
- Explain the tiered routing architecture and configure logical routers
- Configure advanced services such as VPN and load balancing
- Explain the NSX-T Data Center security model with micro-segmentation
- Configure distributed and edge firewall to protect east-west and north-south traffic
- Explain advanced security enforcement with partner service insertion
- Gather relevant information and perform basic troubleshooting

Audience

Experienced system administrators or network administrators

Prérequis

- Good understanding of TCP/IP services • Working experience of enterprise switching and routing
- Good understanding of network security and working experience with firewalls
- Solid understanding of concepts presented in the following courses:
 - o VMware Data Center Virtualization Fundamentals
 - o VMware Introduction to Network Virtualization with NSXo VMware Network Virtualization Fundamentals

Programme

- 1 NSX-T Data Center Introduction • Introductions and course logistics • Overview of modules and course objectives
- 2 VMware Virtual Cloud Network and NSX-T Data Center Overview • Introduce VMware's Virtual Cloud Network vision
 - Describe VMware NSX-T Data Center portfolio • Describe NSX-T Data Center value proposition and use cases
 - Introduce Software-Defined Networking and VMware vSphere® • Describe NSX-T Data Center architecture and components
 - Explain the management, control, data, and consumption planes and functions • Introduce Converged Appliance
- 3 NSX-T Data Center Infrastructure Deployment • Deploy the Converged Appliance cluster
 - Navigate through the Policy Manager user interface • Prepare for the NSX-T Data Center infrastructure deployment
 - Configure N-VDS, Transport Zones, IP pools, and uplink profiles • Prepare ESXi and KVM hosts for NSX-T Data Center
 - Verify host deployment status and connectivity 4 NSX-T Data Center Logical Segment
 - Introduce logical segment key concepts and terminology • Explain N-VDS function and characteristics
 - Configure logical segments using the Policy Manager GUI • Attach VMware ESXi™ and KVM hosts to logical segments
 - Verify layer 2 connectivity • Describe various types of segment profiles
 - Create segment profiles and apply them to logical segments and ports

- Explain MAC, ARP, and TEP tables used in layer 2 logical segmentation • Demonstrate Layer 2 unicast packet flow
- Handle layer 2 BUM traffic 5 NSX-T Data Center Logical Bridging • Explain the function and purpose of logical bridging
- Describe the components of logical bridging • Create logical bridges and bridge profiles 6 NSX-T Data Center Logical Routing
- Introduce the tiered routing architecture • Explain the functions of Tier-0 and Tier-1 routers
- Describe the logical router components: Service Router and Distributed Router
- Discuss VMware NSX® EdgeTM node deployment and sizing options • Deploy NSX Edge nodes and Edge Cluster
- Configure Tier-0 and Tier-1 logical routers • Discuss routing topologies and configure services on routers
- Configure static routing, BGP, and ECMP • Describe NSX Edge high availability (HA)
- Explain HA failure detection and failback modes 7 NSX-T Data Center Advanced Services
- Describe NSX-T Data Center services • Explain the Network Address Translation (NAT) service
- Explain the DNS and DHCP services • Explain the load-balancing features and rules • Describe the load-balancing benefits
- Configure L4-7 load balancing • Introduce the IPSec VPN and L2 VPN concepts
- Configure IPSec VPN and L2 VPN using Policy Manager 8 NSX-T Data Center Security
- Introduce the NSX-T Data Center security approach and model • Explain the use cases and benefits of micro-segmentation
- Describe the distributed firewall architecture, components, and functions • Create distributed firewall sections and rules
- Describe the edge firewall architecture and functions • Configure edge firewall sections and rules • Introduce bridge firewall
- Describe the service insertion feature • Explain the integration of partner security solutions with NSX-T Data Center
- Configure Endpoint Protection policies • Configure Network Introspection policies 9 User and Role Management
- Describe role-based Access Control and VMware Identity Manager™ • Explain the integration of NSX-T Data Center with VMware Identity Manager • Explain authentication policies • Identify the various types of permissions
- Describe the VMware Identity Manager built-in roles • Explain VMware Identity Manager domains and user attributes
- 10 NSX-T Data Center Basic Troubleshooting • Troubleshooting methodology for troubleshooting L2, L3, and service issues
- Introduce various troubleshooting tools • Collect local and remote log files • Monitor the NSX-T Data Center environment

Dates de session

Sur demande. [Merci de nous contacter](#)

Informations

Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)