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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 ESXiTM 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 policies9 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.