# WUNN

### **Enterprise Computing Solutions - Education Services**

## TRAINING OFFERING

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CODE: LENGTH: PRICE:

VMW\_NSXTICM3 40 Hours (5 dage) kr 25,781.00

#### Description

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-T<sup>™</sup> Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.0 release, including the overall infrastructure, logical switching, logical routing, networking and security services, microsegmentation and firewalls, and more.

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

#### Objectives

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 switching and bridging
- Explain the tiered routing architecture and configure gateways Configure advanced services such as VPN and load balancing
- Describe the NSX-T Data Center security model with micro-segmentation
- · Configure Distributed Firewall and Gateway Firewall to protect east-west and north-south traffic
- Explain advanced security enforcement with URL analysis, IDS, and partner service insertion
- Integrate VMware Identity ManagerTM or LDAP with NSX-T Data Center and configure role-based access control
- Describe NSX-T Data Center Federation use-cases and architecture for switching, routing, and security.

#### Audience

·Experienced system administrators or network administrators

#### Prerequisites

·Good understanding of TCP/IP services and network security and working experience with firewalls

- Working experience with enterprise switching and routing Solid understanding of concepts presented in the following courses:
- VMware Data Center Virtualization Fundamentals VMware Introduction to Network Virtualization with NSX
- VMware Network Virtualization Fundamentals

#### Programme

- 1 Course Introduction Introductions and course logistics Course objectives
- 2 VMware Virtual Cloud Network and NSX-T Data Center Introduce VMware's Virtual Cloud Network vision
- Discuss NSX-T Data Center solutions, use cases, and benefits Explain NSX-T Data Center architecture and components
- Describe VMware NSX® product portfolio and features
- Explain the management, control, data, and consumption planes and function
- 3 Deployment Preparing the NSX-T Data Center Infrastructure Describe NSX Management Cluster
- Deploy VMware NSX® Manager<sup>™</sup> nodes on VMware ESXi and KVM hypervisors Navigate through the NSX Manager UI
- Explain data-plane components such as N-VDS, transport nodes, transport zones, profiles, and more
- Perform transport node preparation and establish the data center infrastructure Verify transport node status and connectivity 4 NSX-T Data Center Logical Switching Introduce key components and terminology in logical switching
- Describe the function and types of L2 segments
  Explain tunneling and the GENEVE encapsulation
- Configure logical segments and attach hosts using NSX Manager UI Describe the function and types of segment profiles
- Create segment profiles and apply them to segments and ports
- Explain the function of MAC, ARP, and TEP tables used in packet forwarding Demonstrate L2 unicast packet flow

- Explain ARP suppression and BUM traffic handling 5 NSX-T Data Center Logical Routing
- Describe the logical routing function and use cases Introduce the two-tier routing architecture, topologies, and components
- Explain the Tier-0 and Tier-1 Gateway functions Describe the logical router components: Service Router and Distributed Router
- Discuss the architecture and function of VMware NSX® Edge™ nodes Discuss deployment options of NSX Edge nodes
- Configure NSX Edge nodes and create NSX Edge clusters 
  Configure Tier-0 and Tier-1 Gateways
- Examine the single-tier and multitier packet flow Configure static routing and dynamic routing Enable ECMP on Tier-0 Gateway • Describe NSX Edge HA, failure detection, and failback modes 6 NSX-T Data Center Bridging
- Describe the function of logical bridging Discuss the logical bridging use cases Compare routing and bridging solutions
- Explain the components of logical bridging Create bridge clusters and bridge profiles 7 NSX-T Data Center Security
- Introduce the NSX-T Data Center security approach and model Describe the micro-segmentation benefits and use cases
- Describe the Distributed Firewall architecture, components, and function 
  Configure Distributed Firewall sections and rules
- Describe the Gateway Firewall architecture, components, and function 
  Configure Gateway Firewall sections and rules
- Describe URL analysis and distributed intrusion system importance and use-cases.
- Describe the service insertion functionality for east-west and north-south security
- Discuss the integration and benefits of partner security solutions with NSX-T Data Center 8 NSX-T Data Center Services
- Describe NSX-T Data Center services 
  Explain and configure Network Address Translation (NAT) and NAT 64
- Explain and configure DNS and DHCP services Describe the load-balancing function, topologies, components, and use cases
- Configure L4-L7 load balancing 
  Discuss the IPSec VPN and L2 VPN function and use cases
- Configure IPSec VPN and L2 VPN using NSX Manager UI 9 NSX-T Data Center Monitoring
- Explain the importance and functionality of VMware NSX® Intelligence™
- Navigate through the NSX Topology UI and identify the various key elements in the UI
- Discuss the importance and use-cases of alarms and events 10 NSX-T Data Center User and Role Management
- Describe the function and benefits of VMware Identity Manager in NSX-T Data Center
- Integrate VMware Identity Manager with NSX-T Data Center Integrate LDAP with NSX-T Data Center
- · Identify the various types of users, authentication policies, and permissions · Use role-based access control to restrict user access
- Explain the built-in roles in VMware Identity Manager and role assignment to users 11 NSX-T Data Center Federation
- Introduce the NSX-T Data Center Federation key concepts, terminology, and use-cases.
- Explain the onboarding process of NSX-T Data Center Federation
- Describe the NSX-T Data Center Federation switching and routing functions.
- Describe the NSX-T Data Center Federation security concepts and routing functions

#### **Session Dates**

På anmodning. Kontakt os venligst

#### Yderligere Information

Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.