



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware NSX-T Data Center: Install Configure Manage [V3]

CODE:

VMW_NSXTICM3

LÄNGE:

5 Tage

PREIS:

€3,440.00

Description

Dieser fünftägige, fast-paced Kurs bietet umfassendes Training zum Installieren, Konfigurieren und Verwalten einer VMware NSX-T™ Data Center-Umgebung. Dieser Kurs behandelt die wichtigsten Funktionen und Merkmale des NSX-T Data Centers 3.0, einschließlich der gesamten Infrastruktur, des logical Switching, des logical Routings, der Netzwerk- und Sicherheitsdienste, der Mikrosegmentierung und der Firewalls und mehr.

Der Zugriff auf eine softwaredefinierte Rechenzentrums Umgebung wird durch hands-on Labs bereitgestellt, um die im Kurs vorgestellten Fähigkeiten und Konzepte zu vertiefen.

Lernziel

Am Ende des Kurses sollten Sie über folgende Fähigkeiten verfügen:

- 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 Manager™ 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

Zielgruppe

Erfahrene Systemadministratoren oder Netzwerkadministratoren

Voraussetzungen

Gutes Verständnis der TCP / IP-Dienste und der Netzwerksicherheit sowie Arbeitserfahrung mit Firewalls

- Working experience with enterprise switching and routing

Solides Verständnis der in den folgenden Kursen vorgestellten Konzepte::

- VMware Data Center Virtualization Fundamentals
- VMware Introduction to Network Virtualization with NSX
- VMware Network Virtualization Fundamentals

Inhalt

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

Course Introduction

- Introductions and course logistics
- Course objectives

Deployment Preparing the NSX-T Data Center Infrastructure

- Describe NSX Management Cluster
- Deploy VMware NSX® Manager™ 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

NSX-T Data Center Logical Switching

- Introduce key components and terminology in logical switching
- Describe the types of L2 segments and function
- 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

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

NSX-T Data Center Logical 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

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

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

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

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

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

Test und Zertifizierung

Dieser Kurs dient als Vorbereitung für die Zertifizierung zum VMware Certified Professional - Network Virtualization 2021 (VCP-NV 2021).

Weitere Informationen

- Dieses Training wird direkt vom/beim Hersteller durchgeführt.
- Dieser Kurs ist nicht rabatt- und prämiensprogrammfähig !

Kurstermine

Datum	Lokation	Time Zone	Sprache	Type	Durchführungsgarantie	PREIS
29 Jun 2022			English	Self Paced Training		€3,440.00
05 Sep 2022	Virtual Classroom	BST	German	Instructor Led Online		€3,440.00
03 Oct 2022	Virtual Classroom	BST	German	Instructor Led Online		€3,440.00
05 Dec 2022	Virtual Classroom	GMT	German	Instructor Led Online		€3,440.00

Zusätzliche Information

[Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.](#)