VMNST: VMware NSX-T Data Center: Install, Configure, Manage V3.x

Dieser Kurs wird direkt von VMware durchgeführt.

This five-day, fast-paced course provides comprehensive training on how to install, configure, and manage a VMware NSX-TTM Data Center environment. This course covers key NSX-T Data Center features and functionality offered in the NSX-T Data Center 3.x release, including the overall infrastructure, logical switching, logical routing, networking and security services, firewalls and advanced threat prevention, and more.

Listenpreis

3.440,00 € exkl. MwSt

4.093,60 € inkl. MwSt

Dauer

5 Tage

Leistungen Präsenz

- Schulung im Trainingscenter
- Verpflegung
- Teilnahmebestätigung / Zertifikat

Leistungen bei VCL Training

- Technischer Support
- Online Zugang
- Teilnahmebestätigung / Zertifikat

Ihre Ansprechpartnerin

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Inhalte

- **Course Introduction**
  - Introductions and course logistics
  - Course objectives
- **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
- **Deployment Preparing the NSX-T Data Center Infrastructure**
  - Describe NSX Management Cluster
  - Deploy VMware NSX® ManagerTM nodes on VMware ESXiTM 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
- **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
- **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

Ziele

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 Rechenzentrumsumgebung wird durch hands-on Labs bereitgestellt, um die im Kurs vorgestellten Fähigkeiten und Konzepte zu vertiefen.

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
