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Course Name

VMware NSX-T Data Center Install, Configure, Manage v3.0

Sector Name

Digital Transformation and Innovation

Document Type

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VMware NSX-T Data Center Install, Configure, Manage v3.0

Course Introduction

This training program is designed to provide participants with the knowledge on how to install, configure, and manage a VMware NSX-T Data Center.

This program 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, micro-segmentation and firewalls, and more.

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Target Audience

- ✓ Network Engineers
- ✓ System Administrators
- ✓ Cloud Engineers
- ✓ Security Engineers
- ✓ IT Administrators
- ✓ Virtualization Engineers
- ✓ Data Center Engineers
- ✓ DevOps Engineers
- ✓ Infrastructure Architects
- ✓ Technical Support Engineers

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Learning Objectives

- ✓ Gain a comprehensive understanding of the VMware Virtual Cloud Network and the NSX-T Data Center architecture
- ✓ Explain advanced security enforcement with URL analysis, IDS, and partner service insertion
- ✓ Identify the components, main functions, key features, and benefits of NSX-T Data Center.
- ✓ 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, Distributed Firewall, and Gateway Firewall to protect east-west and north-south traffic
- ✓ Integrate VMware Identity Manager or LDAP with NSX-T Data Center and configure role-based access control.

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Course Outline

✓ Day 01

Module 1: Course Introduction

- ✓ Introductions and course logistics
- ✓ Course objectives

Module 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 the VMware NSX® product portfolio and features
- ✓ Explain the management, control, data, and consumption planes and functions

Module 3: 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

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Course Outline

✓ Day 02

Module 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

Module 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 the 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

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Course Outline

✓ Day 03

Module 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

Module 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 the distributed intrusion system's 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

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Course Outline

✓ Day 04

Module 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 functions and use cases
- ✓ Configure IPSec VPN and L2 VPN using NSX Manager UI

Module 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

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Course Outline

✓ Day 05

Module 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

Module 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

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 4, 2027	Oct. 8, 2027	5 days	4950.00 $	Spain , Barcelona
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 $	UAE , Dubai
Jan. 18, 2027	Jan. 22, 2027	5 days	4250.00 $	UAE , Dubai
April 26, 2027	April 30, 2027	5 days	4250.00 $	UAE , Dubai

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