

خیابان ولیعصر، نبش فاطمی، کوچه بوعلی سینا شرقی، پلاک ۱۷ تلفن: ۵۰ – ۸۸۹۹۵۳۴۸ | م۸۸۹۵۷۰۷۵ | فاکس: ۸۸۹۶۹۱۴۲

## VMware NSX-T Data Center: Install, Configure, Manage

مروری بر دوره

دوره ,VMware NSX-T Data Center: Install (Configure, Manage [۷۳.-

سرفصل ها

- Course Introduction
- · Introductions and course logistics
- Course objectives
- Y 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® Manager™ nodes on VMware ESXi and KVM hypervisors
- Navigate through the NSX Manager UI





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- 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 function and types of LY 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 Ly 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 · and Tier · 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 ¬ and Tier ¬ Gateways
- Examine the single-tier and multitier packet flow





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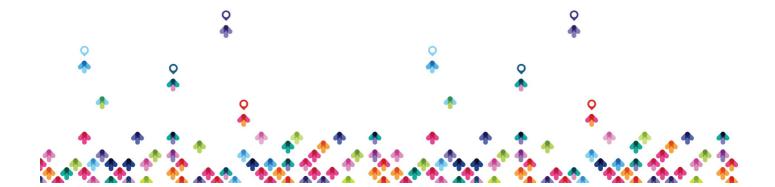
- Configure static routing and dynamic routing
- Enable ECMP on Tier-- Gateway
- Describe NSX Edge HA, failure detection, and failback modes
- P NSX-T Data Center Bridging
- · Describe the function of logical bridging
- Discuss the logical bridging use cases
- Compare routing and bridging solutions
- Explain the components of logical bridging
- Create bridge clusters and bridge profiles

## v 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 usecases.
- 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

## A NSX-T Data Center Services

Describe NSX-T Data Center services





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- Explain and configure Network Address Translation (NAT) and NAT 94
- Explain and configure DNS and DHCP services
- Describe the load-balancing function, topologies, components, and use cases
- Configure L<sub>f</sub>-L<sub>V</sub> load balancing
- Discuss the IPSec VPN and LY VPN function and use cases
- Configure IPSec VPN and Lr 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
- 1. 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





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- Describe the NSX-T Data Center Federation switching and routing functions.
- Describe the NSX-T Data Center Federation security concepts and routing functions

## پیش نیاز ها

- گذراندن دوره ۳۰۱-۳۲۸ CCNA و یا بهره مندی از دانشی معادل آن
- بهره مندی از دانش یا مهارت مجازی سازی در سطح مدرک VMware-VCP

