

VMWA-6 - VMWARE NSX-T DATA CENTER: INSTALL, CONFIGURE, MANAGE [V3.2]

Categoria: VMware

INFORMAZIONI SUL CORSO



7

£555

Durata: 5 Giorni

Categoria: VMware

Qualifica Istruttore: VMware Certified Instructor Dedicato a: Professionista IT Produttore: VMware

OBIETTIVI

By the end of the course, you should be able to meet the following objectives:

- -Describe the architecture and main components of NSX-T Data Center
- -Explain the features and benefits of NSX-T Data Center
- -Deploy the NSX Management cluster and VMware NSX® Edge™ nodes
- -Prepare VMware ESXi™ and KVM hosts to participate in NSX-T Data Center networking
- -Create and configure segments for layer 2 forwarding
- -Create and configure Tier-0 and Tier-1 gateways for logical routing
- -Use distributed and gateway firewall policies to filter east-west and north-south traffic in NSX-T Data Center
- -Configure Advanced Threat Prevention features
- -Configure network services on NSX Edge nodes
- -Use VMware Identity Manager and LDAP to manage users and access
- -Explain the use cases, importance, and architecture of Federation

PREREQUISITI

- -Good understanding of TCP/IP services and protocols
- -Knowledge and working experience of computer networking, including switching and routing technologies (L2-L3) and L2-L7 firewall
- -Knowledge and working experience with VMware vSphere® environments
- -Knowledge and working experience with Kubernetes or vSphere with VMware Tanzu™ environments

Solid understanding of concepts presented in the following courses:

- -VMware Virtual Cloud Network: Core Technical Skills
- -VMware Data Center Virtualization: Core Technical Skills
- -Kubernetes Fundamentals

CONTENUTI



- -Introductions and course logistics
- -Course objectives

2 VMware Virtual Cloud Network and NSX-T Data Center

- -Introduce the VMware 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 NSXTM product portfolio and features
- -Explain the management, control, data, and consumption planes and function

3 Preparing the NSX-T Data Center Infrastructure

- -Describe NSX Management Cluster
- -Deploy VMware NSXTM ManagerTM nodes on VMware ESXi and KVM hypervisors
- -Navigate through the NSX Manager UI
- -Explain data-plane components such as N-VDS/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 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, including BGP and OSPF
- -Enable ECMP on Tier-0 Gateway
- -Describe NSX Edge HA, failure detection, and failback modes
- -Configure VRF Lite

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 Firewalls

- -Describe NSX segmentation
- -Identify the steps to enforce Zero-Trust with NSX segmentation
- -Describe the Distributed Firewall architecture, components, and function
- -Configure Distributed Firewall sections and rules
- -Configure the Distributed Firewall on VDS
- -Describe the Gateway Firewall architecture, components, and function
- -Configure Gateway Firewall sections and rules

8 NSX-T Data Center Advanced Threat Prevention

- -Explain NSX IDS/IPS and its use cases
- -Configure NSX IDS/IPS
- -Deploy the NSX Application Platform
- -Identify the components and architecture of NSX Malware Prevention
- -Configure NSX Malware Prevention for east-west and north-south traffic
- -Describe the use cases and architecture of NSX Intelligence
- -Identify the components and architecture of VMware NSX® Network Detection and Response™
- -Use NSX Network Detection and Response to analyze network traffic events.

9 NSX-T Data Center Services

- -Describe NSX-T Data Center services
- -Explain and configure Network Address Translation (NAT)
- -Explain and configure DNS and DHCP services
- -Describe VMware NSX® Advanced Load Balancer™ architecture, components, topologies, and use cases.
- -Configure NSX Advanced Load Balancer
- -Discuss the IPSec VPN and L2 VPN function and use cases
- -Configure IPSec VPN and L2 VPN using the NSX Manager UI

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

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.

INFO

Esame: 2V0-41.24 - VMware NSX 4.x Professional --- VMware Certified Professional - Network Virtualization (VCP-NV)



Materiale didattico: Materiale didattico ufficiale VMware in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)