

VNSXTDC32-TSHO (VMWARE NSX-T DATA CENTER: TROUBLESHOOTING AND OPERATIONS) 3.2

Objetivo

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

- Use the native tools available in NSX-T Data Center to identify and troubleshoot the problems related to the NSX-T Data Center environment.
- Use VMware vRealize® Log Insight and VMware vRealize® Network Insight to identify and troubleshoot the problems related to the NSX-T Data Center environment.
- Explain the NSX-T Data Center infrastructure components and the communications between them.
- Identify, analyze, and troubleshoot problems related to the management, control, and data planes in NSX-T Data Center.
- Identify, analyze, and troubleshoot problems related to infrastructure preparation in NSX-T Data Center.
- Identify, analyze, and troubleshoot problems related to logical switching and logical routing in NSX-T Data Center.
- Identify, analyze, and troubleshoot network security problems related to the NSX-T Data Center Distributed and Gateway firewalls.
- Identify, analyze, and troubleshoot problems related to VPN and the VMware NSX® Advanced Load Balancer.
- Identify the components and packet flows involved in the NSX-T Data Center datapath and troubleshoot related problems.

Público Alvo

Audience • Experienced system administrators and network administrators • Network and security professionals who work with enterprise and data center networks

Pré-Requisitos

Prerequisites Before taking this course, you must complete the following course: • VMware NSX-T Data Center: Install, Configure, Manage [V3.2] • You should also have understanding or knowledge of these technologies:

- Good understanding of TCP/IP services and protocols
- Knowledge and working experience of computer networking and security, including:
- Switching and routing technologies (L2-L3)
- Network and application delivery services (L4-L7)
- Firewalling (L4-L7)
- VMware vSphere® environments

The VMware Certified Professional – Network Virtualization certification is recommended.

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Outline Course

1. Course Introduction
 - Introduction and course logistics

- Course objectives

2. NSX-T Data Center Operations and Tools

- Explain and validate the native troubleshooting tools (dashboards, Traceflow, live traffic analysis, port mirroring) for the NSX-T Data Center environment
- Configure syslog, IPFIX, and log collections for the NSX-T Data Center environment
- Integrate NSX-T Data Center with vRealize Log Insight and vRealize Network Insight
- Validate and review the API methods available to configure the NSX-T Data Center environment

3. Troubleshooting the NSX Management Cluster

- Describe the NSX Management cluster architecture, components, and communication channels
- Identify the workflows involved in configuring the NSX Management cluster
- Validate and troubleshoot the NSX Management cluster formation

4. Troubleshooting Infrastructure Preparation

- Describe the data plane architecture, components, and communication channels
- Explain and troubleshoot VMware ESXi™ transport node preparation issues
- Explain and troubleshoot KVM transport node preparation issues
- Explain and troubleshoot VMware NSX® Edge™ transport node preparation issue

5. Troubleshooting Logical Switching

- Describe the architecture of logical switching
- List the modules and processes involved in configuring logical switching
- Explain the importance of N-VDS and VDS in transport nodes
- Describe the procedure to migrate from N-VDS to VDS
- Review the architecture and workflows involved in attaching workloads to segments
- Identify and troubleshoot common logical switching issues

6. Troubleshooting Logical Routing

- Review the architecture of logical routing and NSX Edge nodes
- Explain the workflows involved in the configuration of Tier-0 and Tier-1 gateways
- Explain the high availability modes and validate logical router placements
- Identify and troubleshoot common logical routing issues using both BGP and OSPF

7. Troubleshooting Security

- Review the architecture of the Distributed Firewall
- Explain the workflows involved in configuring the Distributed Firewall
- Review the architecture of the Gateway Firewall
- Explain the workflows involved in configuring the Gateway Firewall
- Identify and troubleshoot common distributed firewall and Gateway Firewall issues

8. Troubleshooting Services

- Review the NSX Advanced Load Balancer architecture and components
- Identify and troubleshoot common NSX Advanced Load Balancer issues
- Review of IPsec and L2 VPN architecture and components
- Identify and troubleshoot common IPsec and L2 VPN issues

9. Datapath Walkthrough

- Verify and validate the path of the packet on the NSX datapath (East-West and South-North)
- Identify and perform packet captures at various points in the datapath
- Use NSX CLI and native hypervisor commands to retrieve configurations involved in the NSX datapath