

VMWARE NSX-T DATA CENTER: TROUBLESHOOTING AND OPERATIONS [V3.0]

Course Level:

Professional

Course Duration:

5 Days

Course Overview:

This five-day VMware NSX-T Data Center: Troubleshooting and Operations [V3.0] training course from CloudThat provides candidates with hands-on training and advanced knowledge necessary to operate and troubleshoot the VMware NSX-T Data Center environment. Candidates taking up this course also learn about the workflows of various networking and security constructs, along with gaining an understanding of several operational and troubleshooting tools that help manage and troubleshoot NSX-T Data Center.

By enrolling in our VMware NSX-T Data Center: Troubleshooting and Operations [V3.0] training program, learners will acquire the necessary skills and knowledge required to clear the final exam successfully. Candidates attending our training get access to the authored curriculum and can learn through engaging and interactive sessions delivered by VMware certified in-house trainers.





Product Alignment

- NSX-T Data Center 3.0

Prerequisites

Before taking this course, you should have completed the VMware NSX-T Data Center: Install, Configure, Manage [V3.0] course.

You should also have the following understanding or knowledge:

- Good understanding of TCP/IP services and protocols

- Knowledge and working experience of computer networking, including:

 - Switching and routing technologies (L2-L3)









 - Network and application delivery services (L4-L7)

 - Knowledge and working experience of VMware vSphere environments and KVM-based environments

The VMware Certified Professional – Network Virtualization (2020) certification is recommended.



Objectives

-  Use the native tools available in NSX-T Data Center to identify and troubleshoot the problems related to 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 the following problems related to the NSX-T Data Center:
 - Management, control, data planes, infrastructure preparation
-  Logical switching and logical routing
-  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 load balancer services
-  Identify the components and packet flows involved in the NSX-T Data Center datapath and troubleshoot various problems that could occur in the datapath

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Course Outline

Module 1: Course Introduction

Topics

..... Introductions and course logistics
Course objectives

Module 2: NSX-T Data Center Operations and Tools

Topics

Explain and validate the native troubleshooting tools (dashboards, traceflow, 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 APIs methods available to configure the NSX-T Data Center environment

Course Outline

Module 3: Troubleshooting the NSX Management Cluster

Topics

- 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

Module 4: Troubleshooting Infrastructure Preparation

Topics

- 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 issues

Module 5: Troubleshooting Logical Switching

Topics

- Understand 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
- Review the architecture and workflows involved in configuring
- Identify and troubleshoot common logical switching issues

Module 6: Troubleshooting Logical Routing

Topics

- 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 HA modes and logical router placements
- Identify and troubleshoot common logical routing issues

Module 7: Troubleshooting Security

Topics

- 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

Module 8: Troubleshooting Load Balancing and VPN Services

Topics

- Review load balancer architecture and components
- Identify and troubleshoot common load balancing issues
- Review of IPsec and L2 VPN architecture and components
- Identify and troubleshoot common IPsec and L2 VPN issues

Course Outline

Module 9: NSX-T Data Center Security

Topics

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

Who Should Enroll for this Course?

Experienced system administrators and network administrators

Network and security professionals who work with enterprise and data center networks



About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K+ IT professionals from fortune 500 companies on technologies such cloud, Artificial Intelligence, Machine Learning, IoT, OpenStack, OpenShift, DevOps, MongoDB, Big Data and more.

Through sheer dedication and excellence in the field of cloud training, CloudThat has recently being recognized as **VMware Authorized Training Reseller**. In addition, CloudThat is a proud Microsoft Gold Partner, AWS Advanced Consulting Partner, Google Cloud Platform Partner, and Databricks Partner. Recently, we have won the Microsoft Asia Superstar Campaign for India-2021 for being a global leader in providing cloud training and consultancy services with exemplary track record.

Our Success Track

10+ Years
of Experience

100+
Corporates served

28+
countries catered

500K+
Professionals trained

200+
Projects delivered

350+
Cloud certifications

To know more about our VMware certification training, email at sales@cloudthat.com or call us at **+918880002200**.

