

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



**Professional** 

## Course Duration:

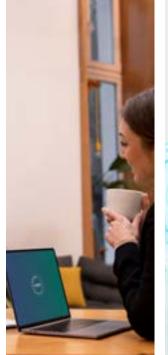
5 Days

## **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 helps 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.





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#### **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)

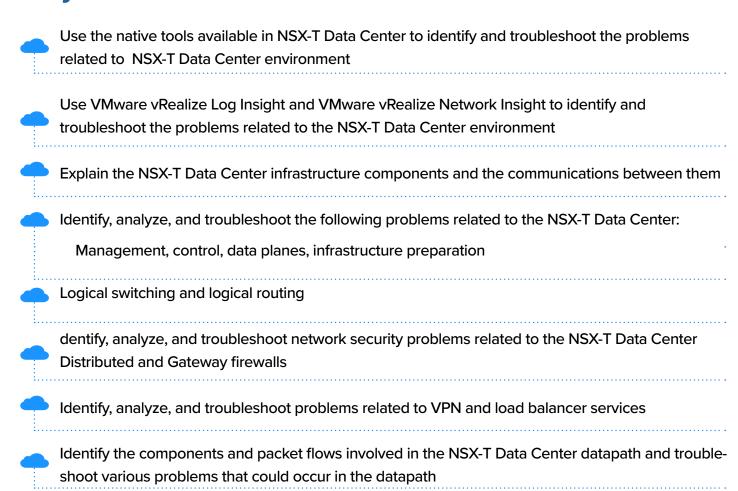
Network and application delivery services (L4-L7)

Knowledge and working experience of VMware vSphere environments and

**KVM-based environments** 

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

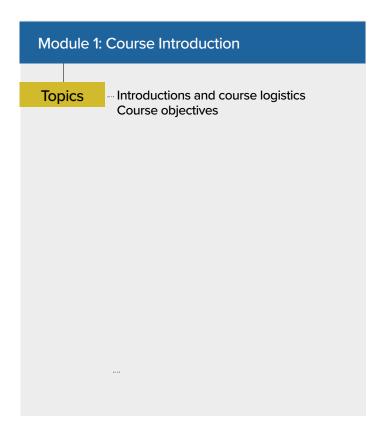
## **Objectives**



Want to make a career in virtualization? Move up the corporate ladder with a list of VMware cloud certifications from CloudThat. Grab up to 30% discount on any of our 45+ VMware certification courses.

**Enroll Today!** 

## **Course Outline**



## 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 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

Review the architecture and workflows involved in configuring

Identify and troubleshoot common logical switching 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 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 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 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

500K+
Professionals trained

100+

Corporates served

200+

Projects delivered

28+

countries catered

350+

Cloud certifications

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