

VMWARE NSX-T DATA CENTER: INSTALL, CONFIGURE, MANAGE [V3.0]





Course Level:

Professional

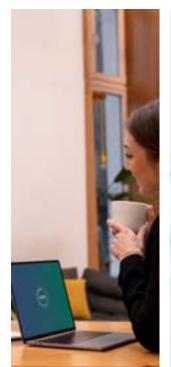
Course Duration:

5 Days

Course Overview:

This five-day VMware NSX-T Data Center: Install, Configure, Manage [V3.0] training course from CT offers comprehensive training to candidates on how to install, configure, and manage a VMware NSX-T Data Center environment. Candidates taking up this course also learn the key features of NSX-T Data Center and its functionalities offered in the NSX-T Data Center 3.0 release, which includes the logical switching, overall infrastructure, logical routing, micro-segmentation and firewalls networking and security services, and more.

By enrolling in our VMware NSX-T Data Center: Install, Configure, Manage [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

Good understanding of TCP/IP services and network security and working experience with firewalls

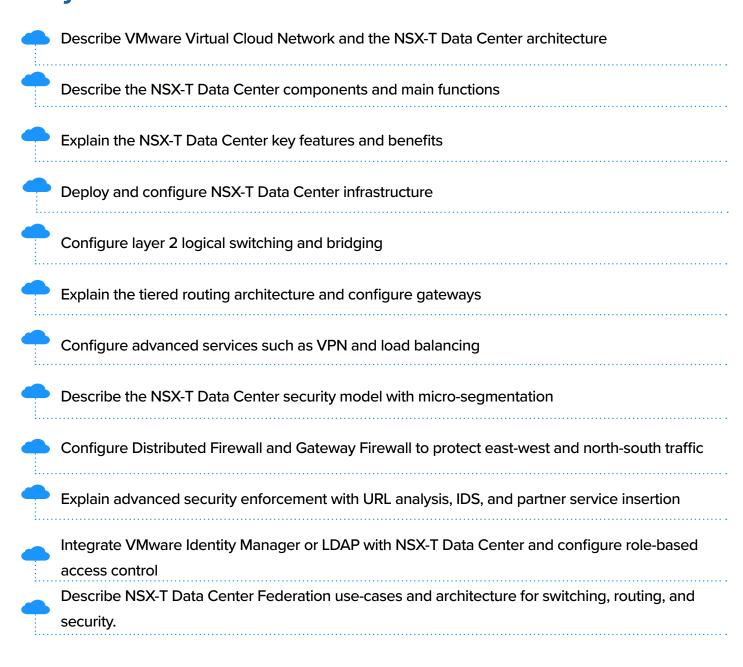
· Working experience of enterprise switching and routing

Solid understanding of concepts presented in the following courses:

VMware Data Center Virtualization Fundamentals

VMware Introduction to Network Virtualization with NSX VMware Network Virtualization Fundamentals

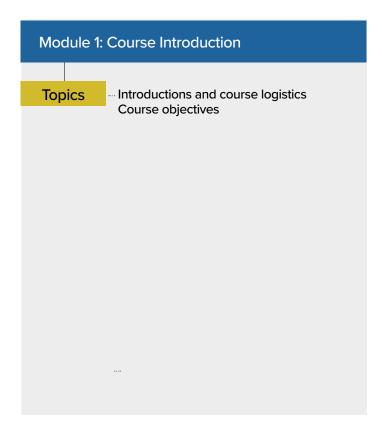
Objectives



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.

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Course Outline



Module 2: VMware Virtual Cloud Network and NSX-T Data Center

Topics

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

Course Outline

Module 3: Deployment Preparing the NSX-T Data Center Infrastructure

Topics

Describe NSX Management Cluster

Deploy VMware NSX Manager nodes on VMware

ESXi and KVM hypervisors

Navigate through the NSX Manager UI

Explain data-plane components such as N-VDS, trans-

port nodes, transport zones, profiles, and more

Perform transport node preparation and establish the data center infrastructure

Verify transport node status and connectivity

Module 5: NSX-T Data Center Logical Routing

Topics

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 VMware 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

Enable ECMP on Tier-0 Gateway

Describe NSX Edge HA, failure detection, and failback modes

Module 4: NSX-T Data Center Logical Switching

Topics

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

Module 6: NSX-T Data Center Bridging

Topics

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

Course Outline

Module 7: NSX-T Data Center Security

Topics

Introduce the NSX-T Data Center security approach and model

Describe the micro-segmentation benefits and use

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 use-cases.

Describe the service insertion functionality for eastwest and north-south security

Discuss the integration and benefits of partner security solutions with NSX-T Data Center

Module 9: NSX-T Data Center Monitoring

Topics

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

Module 11: NSX-T Data Center Federation

Topics

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.

Module 8: Building Protection Groups

Topics

Describe NSX-T Data Center services

Explain and configure Network Address Translation (NAT) and NAT 64

Explain and configure DNS and DHCP services

Describe the load-balancing function, topologies,

components, and use cases

Configure L4-L7 load balancing

Discuss the IPSec VPN and L2 VPN function and use

cases

Configure IPSec VPN and L2 VPN using NSX

Manager UI

Module 10: NSX-T Data Center User and Role Management

Topics

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

Who Should Enroll for this Course?

Experienced system administrators or network administrators

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.

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Professionals trained

100+

Corporates served

200+

Projects delivered

28+

countries catered

350+

Cloud certifications

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