VMware NSX-T Data Center: Design [v3.0]

Register Online

Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE" ILT = "Instructor-Led-Training"				
02/14/22	10:00AM - 6:00PM	Online LIVE	OLL	$4,625.00
03/14/22	10:00AM - 6:00PM	Online LIVE	OLL	$4,625.00
04/18/22	10:00AM - 6:00PM	Online LIVE	OLL	$4,625.00

Overview

This five-day course provides comprehensive training on considerations and practices to design a VMware NSX-T™ Data Center environment as part of a software-defined data center strategy. This course prepares the student with the skills to lead the design of NSX-T Data Center offered in the NSX-T Data Center 3.0 release, including design principles, processes, and frameworks. The student gains a deeper understanding of NSX-T Data Center architecture and how it can be leveraged to create solutions to address the customer's business needs.

Prerequisite Comments

Before taking this course, you should have completed the following course
VMware NSX-T Data Center: Install, Configure, Manage [V3.0]
You should also have the understanding or knowledge of these technologies
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.

Target Audience

Network and security architects and consultants who design the enterprise and data center networks and NSX environments

Course Objectives

By the end of the course, you should be able to meet the following objectives
Understand and apply a design framework
Apply a design process for gathering requirements, constraints, assumptions, and risks
Analyze existing physical networking and security components, processes, and operations
Design a VMware vSphere virtual data center to support NSX-T Data Center requirements
Design a physical network to support network virtualization in a software-defined data center
Design logical network services
Design logical security services

Design a data center rack solution to support scalability and high availability
Analyze the operational readiness of an organization and perform a skills gap analysis
Analyze alternative design choices for risk mitigation
Understand the design and support for NSX-T Data Center infrastructure in a multi data center infrastructure

Course Outline

1 - Course Introduction

Introductions and course logistics
Course objectives

2 - Basic Design Concepts

Process and principles of design
Describe the design process and frameworks
Explain VVD and its importance

3 - NSX-T Data Center Architecture and Components

Explain the NSX-T Data Center and Virtual Cloud Network
Describe the NSX-T Data Center architecture and use cases
List the NSX-T Management cluster design considerations

4 - NSX-T Data Center Design Considerations

Explain physical infrastructure design considerations
Explain virtual infrastructure design considerations
List the collapsed management and VMware NSX® Edge™ resources design considerations
Explain dedicated management and NSX Edge resources design

5 - Logical Switching Design

Explain the VMware NSX-T™ logical switching design concepts
Describe the traffic flooding concepts

6 - NSX-T Data Center Edge Design

List the NSX Edge VM design considerations
Explain NSX Edge BareMetal design considerations
Describe NSX Edge cluster design
Explain Bridge design considerations

7 - Logical Routing Design

Explain logical router components
Describe multitier routing
Explain IPv6 addressing and routing design concepts
Multi-compute workload domain design considerations
High availability and router placement

8 - NSX-T Data Center Network Services

Explain the functionality of NAT, Proxy ARP, DHCP, and metadata proxy and design considerations
Describe the load balancer considerations
Explain the VPN design considerations

9 - NSX-T Data Center Security Design

Explain the distributed firewall design concepts
Explain the Gateway firewall design concepts
Describe the security policy methodology

10 - NSX-T Data Center Federation Design

Explain the Federation functionality
Explain the design concepts for Federation components
Describe the design involved for Federation networking
Describe the design involved for Federation security

11 - NSX-T Data Center and Containers

Understand VMware Tanzu™
Understand NSX-T Data Center for Kubernetes
Understand IPv6 for Kubernetes PODs
Understand NSX-T Data Center design options for VMware Tanzu
Describe NSX-T Data Center design recommendations for VMware Tanzu

Related Courses, Certifications, Exams

- VMware NSX-T Data Center: Install, Configure, Manage [v3.0]