Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

Detalles de contacto

Avda Europa 21, 28108 Alcobendas

Email: formacion.ecs.es@arrow.com
Phone: +34 91 761 21 51

VMware NSX-T Data Center: Install, Configure, Manage [V3]

CÓDIGO:	DURACIÓN:	Precio:
VMW_NSXTICM3	40 Hours (5 días)	€1,880.00

Description

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.

Product Alignment
- NSX-T Data Center 3.0

Objetivos

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 alternative design choices for risk mitigation
- Understand the design and support for NSX-T Data Center infrastructure in a multi data center infrastructure

Público

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

Requisitos Previos

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 with VMware vSphere environments and KVM-based environments

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

Programa

1 Course Introduction
- Introductions and course logistics
- Course objectives

2 Basic Design Concepts
- Describe the principles of design
- Describe the design process and frameworks
- Explain VMware Validated Design 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 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

8 NSX-T Data Center Advanced Routing Design
- Explain High Availability and Router Placement
- L3 Multicast design considerations
- Describe VRF Lite and EVPN

9 NSX-T Data Center Network Design
- Explain the functionality and considerations of using NAT, Proxy ARP, DHCP, and metadata proxy
- Describe the load balancer design considerations
- Explain the VPN design considerations

10 NSX-T Data Center Security Design
- Explain the Distributed Firewall design concepts
- Explain the Identity Firewall design concepts
- Explain the Gateway Firewall design concepts
- Describe the security policy methodology

11 NSX-T Data Center Federation Design
- Explain the Federation functionality
- Explain the design concepts for Federation components
- Describe the design involved for Federation networking
- Review Federation design considerations

12 NSX-T Data Center and Containers
- Understand the integration between NSX-T Data Center and vSphere with VMware Tanzu™
- Describe how NSX-T Data Center provides networking, load balancing, and security in vSphere for VMware Tanzu
- Describe VMware Tanzu™ Kubernetes Grid™ Service
- Understand Tanzu Kubernetes Grid™ cluster networking and load balancing capabilities

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.