

VMware Cloud Director: Advanced Networking with NSX-T Data Center [V10.2] (CDANNSXT)

ID CDANNSXT Prix 3 750,- € (Hors Taxe) Durée 5 jours

A qui s'adresse cette formation

Service providers, cloud architects, systems engineers, data center administrators, and cloud administrators with experience in managed services or managing a service provider environment.

Pré-requis

Completion of the following courses and equivalent knowledge is required:

- VMware Cloud Director: Install, Configure, Manage
- VMware NSX-T Data Center: Install, Configure, Manage
- Strong knowledge on NSX Data Center for vSphere
- Strong understanding in NSX Advanced Load Balancer

The following experience is helpful:

- Working at the Linux command line
- Substantial knowledge of general networking concepts

Objectifs

By the end of the course, you should be able to meet the following objectives:

- Understand NSX-T Data Center and the VMware Cloud Director fundamentals
- List the various NSX-T Data Center components
- List the use cases and topologies of VMware Cloud Director networks
- Discuss the VMware Cloud Director provider networking configuration
- Discuss the VMware Cloud Director tenant networking configuration
- Discuss the Data Center Group network
- Discuss VMware NSX® Advanced Load Balancer™ and its components
- Discuss NSX Advanced Load Balancer configuration and the integration with VMware Cloud Director
- Enable a layer 2 stretched network that spans across

multiple VMware Cloud organization VDCs

- Showcase the importance of the VMware Cloud Director Migration Tool and its functionality
- Manage resources from the VMware Cloud Director console and use VMware vRealize Operations Manager™ and vRealize Tenant App

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Course Introduction

- Introductions and course logistics
- Course objectives

VMware Cloud Director and NSX-T Data Center Fundamentals

- Explain NSX-T Data Center and its architecture
- Discuss various NSX-T Data Center components
- Discuss cluster design for NSX-T Data Center
- Deployment methods for NSX-T Data Center Edge nodes
- Discuss VRF Lite feature
- Describe NSX-T Data Center objects and their creation methods
- Comparing the NSX-T Data Center and NSX Data Center for vSphere functionality
- List the various requirement and maximum configuration details
- Explain Cloud Director and its architecture
- Discuss Cloud Director prerequisites and deployment
- Discuss the use cases and features of VMware Cloud Director
- Discuss the VMware Validated Designs for Cloud Providers

Provider Configuration

- Discuss the integration of vCenter Server with VMware Cloud Director
- Discuss the integration of NSX-T Data Center with VMware Cloud Director
- Explain the Geneve network pool
- Describe the types of provider network and their use cases
- Discuss the edge gateway and its services
- Discuss the external network with the Tier-0 gateway
- Understand the external network with VRF

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- Compare the Tier-0 gateway and the VRF supported external gateway
- Discuss the dedicated external network
- Explain distributed routing
- Discuss the BGP configuration in NSX-T Data Center
- Discuss the shared and dedicated external network topologies

Tenant Configuration

- Discuss the various types of organization VDC networks and their use cases
- Explain vApp networks and their use cases
- Discuss the different organization VDC networks topology
- Understand the configuration requirements for each organization VDC network
- Differentiate between the imported and direct organization VDC networks
- Explain the imported organization VDC network topology
- Explain the edges services available for each type of organization VDC network
- Discuss SNAT, DNAT, NO SNAT, and NO DNAT
- Discuss IP Allocation Pools
- Discuss Security Groups
- Identify the Security Group objects in NSX-T Data Center

Cross VDC Networking Using NSX-T Data Center

- Explain Data Center Groups and their use cases
- Define compute provider scope and network provider scope
- Configure cross-VDC networking and L2 stretched networks
- Manage participating VDCs in a data center group
- Add a data center group edge gateway to a data center group
- Configure the distributed firewall for a data center group

NSX Advanced Load Balancer

- Describe the NSX Advanced Load Balancer components and its main functions
- Explain the NSX Advanced Load Balancer key features, benefits, and its use cases
- Discuss NSX-T Cloud and its configuration requirements
- Integrate NSX Advanced Load Balancer with NSX-T Data Center
- Explain Service Engine Groups and types
- Discuss Virtual Service and its configuration
- Integrate NSX Advanced Load Balancer with VMware Cloud Director
- Understand and apply a load balancing design framework
- Monitor NSX Advanced Load Balancer

- Understand the use cases and purpose of the NSX Migration for VMware Cloud Director
- Discuss the supported topology and compatibility matrix
- Understand the supported features
- Understand the environmental prerequisites
- Discuss how to prepare the edge cluster for bridging and use for migration
- Build the userInput.yml file by providing the environment details
- Perform a Precheck
- Discuss error handling after Precheck
- Perform the actual migration
- Discuss troubleshooting tips and solutions

Monitoring and Billing VMware Cloud Director Networking

- Discuss the methods to manage and monitor networking objects from the VMware Cloud Director portal
- Understand vRealize Operations Manager and the vRealize Operations Manager Tenant App overview
- Discuss how to monitor VMware Cloud Director networking objects using vRealize Operations Manager and vRealize Operations Manager Tenant App
- Create a policy and generate customer bills
- Enable the tenant application plug-in for VMware Cloud Director
- Describe the usage of Usage Meter with VMware Cloud Director

VMware NSX Migration for VMware Cloud Director

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