

VMware NSX-T Data Center: Migration from NSX Data Center for vSphere



Course Description

This three-day, hands-on training course provides you with the skills, techniques, and tools required to successfully migrate your current VMware NSX® Data Center for vSphere® environment to VMware NSX-T™ Data Center. You will learn to choose between different migration approaches and how to perform the type of migration that best suits your current environment. In addition, you are presented with common migration problems and resolutions.

Course Duration:

3 days

Prerequisites:

Before taking this course, you must complete the following course:

- VMware NSX-T Data Center: Install, Configure, Manage [V3.2]

You should also have understanding or knowledge of these technologies:

- Good understanding of TCP/IP services and protocols
- Knowledge and working experience of computer networking and security, including:
 - Switching and routing technologies (L2 and L3)
 - Network and application delivery services (L4 to L7)
 - Firewalling (L4 through L7)
 - VMware vSphere® environments

The VMware Certified Professional – Network Virtualization certification is recommended.

Objectives:

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

- Contrast NSX-T Data Center and NSX Data Center for vSphere architectures
- Understand the networking and security features of NSX-T Data Center
- Compare end-to-end and lift-and-shift migration approaches
- Identify common fixed network topologies supported in end-to-end migrations
- Perform end-to-end migrations for fixed and user-defined topologies
- Describe other migration modes supported by the migration coordinator
- Describe lift-and-shift migration techniques
- Troubleshoot common problems with end-to-end and lift-and-shift migrations
- Describe the steps to perform a cross-vCenter NSX to NSX Federation migration

Course Outline:

1. Course Introduction
 - Introduction and course logistics
 - Course objectives
2. Introduction to NSX-T Data Center
 - Describe the motivation for migrating to NSX-T Data Center
 - Contrast NSX-T Data Center and NSX Data Center for vSphere architectures
 - Describe the logical switching components in NSX-T Data Center
 - Describe the components and functions of NSX-T Data Center logical routing

- Describe the security features of NSX-T Data Center
 - Explain the implementation of networking services in NSX-T Data Center
3. Migration Approaches
 - Describe the end-to-end migration approach
 - Describe the lift-and-shift migration approach
 - Compare the migration approaches
 - Determine the best migration strategy based on customer requirements
 4. Fixed Topologies for Migration
 - Identify the NSX Data Center for vSphere fixed network topologies that can be migrated to NSX-T Data Center without a user-defined topology
 - Explain how network and security objects from the fixed topologies are translated from NSX Data Center for vSphere to NSX-T Data Center
 5. End-to-End Migration
 - Describe the prerequisites for end-to-end migration
 - Prepare the NSX Data Center for vSphere environment for migration
 - Prepare the NSX-T Data Center environment for migration
 - Migrate the NSX Data Center for vSphere environment with the migration coordinator using a fixed topology
 - Migrate the NSX Data Center for vSphere environment with the migration coordinator using a user-defined topology
 - Perform postmigration tasks
 6. Other Migration Modes
 - Describe the steps to migrate NSX Data Center for vSphere when integrated with VMware vRealize® Automation™
 - Describe the Edge Cutover migration mode
 - Describe the Distributed Firewall migration mode
 - Describe the Distributed Firewall, Host, and Workload migration mode
 - Describe the vSphere Networking migration feature
 7. Lift-and-Shift Migration
 - Describe the prerequisites for lift-and-shift migrations
 - Configure L2 bridging in preparation for lift-and-shift migrations
 - Migrate the network and security configuration
 - Migrate workloads
 - Describe the DFW-only migration mode
 8. Troubleshooting Migrations
 - Troubleshoot migration problems
 - Identify the log files used in troubleshooting
 - Identify and resolve common issues related to migrations.
 9. Cross-vCenter NSX to NSX Federation Migration
 - Contrast cross-vCenter NSX and NSX Federation architectures
 - Describe the steps for a multisite migration
 - Demonstrate how to perform a cross-vCenter NSX to NSX Federation migration

Who Should Attend

- Experienced system administrators and network administrators
- Network and security professionals who work with enterprise and data center networks