

VMware NSX-T Data Center: Install, Configure, Manage Training

VMware Authorized Training · Applied Technology Academy

The VMware NSX-T Data Center: Install, Configure, Manage [V3.2] course provides participants with the skills to deploy and manage the NSX-T Data Center environment. This training focuses on implementing logical switching, routing, distributed firewalls, and load balancing in both private and multi-cloud environments. Learners will also gain hands-on experience with installation, configuration, operations, and troubleshooting to effectively manage and secure network virtualization infrastructure.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	3 Days	VMware Sphere	\$145,000	Yes

Course Overview

- Describe the NSX-T Data Center architecture and its components
- Install and configure NSX-T Data Center infrastructure and management tools
- Implement logical switching, routing, and network segmentation
- Configure and manage NSX-T Distributed and Gateway Firewalls
- Deploy and manage load balancing services
- Integrate NSX-T with VMware vRealize Automation and Kubernetes environments
- Perform monitoring, troubleshooting, and lifecycle management tasks
- Prepare for the VMware Certified Professional – Network Virtualization (VCP-NV) certification exam (view certification details)

Course Outline

- **Module 1: Course Introduction and Overview**
 - Course objectives and structure
 - Overview of NSX-T Data Center 3.2 features and enhancements
 - NSX-T architecture, components, and use cases
- **Module 2: NSX-T Architecture and Infrastructure**
 - NSX-T Data Center management and control planes
 - NSX Manager, NSX Edge, and transport nodes
 - Transport zones and N-VDS configuration
 - Overlay and VLAN transport modes
- **Module 3: NSX-T Installation and Configuration**
 - Deploying NSX Manager and NSX Edge nodes
 - Configuring IP pools and transport zones

- Adding ESXi and KVM hosts as transport nodes
- Establishing host and edge connectivity
- **Module 4: Logical Switching**
 - Overview of logical switches and segments
 - VLAN-backed and overlay segments
 - Segment security and MAC management
 - Verifying switch operations and connectivity
- **Module 5: Logical Routing**
 - Tier-0 and Tier-1 gateways
 - Route advertisement and redistribution
 - Dynamic routing protocols (OSPF, BGP)
 - Route filtering and high availability configurations
- **Module 6: NSX-T Security**
 - NSX Distributed Firewall architecture
 - Layer 3, 4, and 7 firewall rules
 - Identity-based and context-aware security policies
 - Gateway Firewall configuration and monitoring
- **Module 7: Load Balancing**
 - Overview of NSX-T load balancing services
 - Configuring Layer 4 and Layer 7 virtual servers
 - Application profiles and health checks
 - Managing load balancer pools and persistence
- **Module 8: Operations and Monitoring**
 - NSX-T Manager interface and dashboards
 - Using Traceflow and Port Connection tools
 - Syslog, SNMP, and IPFIX integration
 - Monitoring distributed firewalls and routing performance
- **Module 9: NSX-T Integration and Automation**
 - Integration with VMware vRealize Automation
 - NSX-T in Kubernetes and container environments
 - Automation using PowerCLI and REST APIs
 - Role-based access control and NSX-T Federation
- **Module 10: Troubleshooting and Maintenance**
 - Troubleshooting tools and logs
 - Validating transport nodes and routing
 - Common issues and resolution steps

- Performing backup and restore operations
- **Module 11: Course Summary and Exam Preparation**
 - Review of key NSX-T concepts
 - Best practices for design and deployment
 - Sample scenarios and exam readiness guidance

Intended Audience

VMware vSphere Proficiency: You should have a working knowledge of VMware vSphere environments, including installation, configuration, and management of ESXi hosts and vCenter Server. This is foundational, as NSX-T integrates directly into vSphere.

Virtual Networking Fundamentals: Experience managing the vSphere Distributed Switch (vDS) and configuring basic virtual networking components (VLANs, port groups).

Prerequisites

- Understanding of TCP/IP services, routing, and switching
- Familiarity with VMware vSphere concepts
- Experience with network and security operations

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.