APPLIED TECHNOLOGY ACADEMY

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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

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  - 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.