

VMware NSX: Install, Configure, Manage [V6.1]

Course Code: VMNSXICMV61
50% lecture, 50% hands-on lab

5 days; Instructor-led training

Course Overview

This comprehensive, fast-paced training course focuses on installing, configuring, and managing VMware NSX™. This course covers NSX as a part of the software-defined data center platform, implementation use cases along with features of NSX, and functionality operating at Layer 2 through Layer 7 of the OSI model. Lecture and hands-on lab activities support the student's understanding of NSX features, functionality, and on-going management and control.

Course Objectives

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

- Describe the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe features and benefits of NSX network virtualization
- Identify prerequisites for NSX
- Configure and deploy NSX management, control, and data plane components
- Configure, deploy, and use logical switch networks
- Configure and deploy NSX distributed router to optimize East West data center traffic flows
- Configure and deploy VMware NSX Edge™ services gateway appliances
- Configure and use all the main features of the NSX Edge services gateway
- Configure and use NSX virtual private networks
- Configure and use logical load balancing
- Configure NSX Edge firewall and Distributed Firewall policy rules
- Configure service composer security groups and policies
- Use role-based access to control user account privileges
- Use activity monitoring to validate and create security policies
- Describe how VMware vCloud® Automation Center™ and NSX enable automated provisioning of IT services and networks

Course Modules

1 Course Introduction <ul style="list-style-type: none"> • Introductions and course logistics • Course objectives 	7 Layer 2 Bridging <ul style="list-style-type: none"> • Describe Layer 2 bridging between VXLAN and VLAN • Describe the traffic flow between VXLAN and VLAN
2 Software-Defined Data Center <ul style="list-style-type: none"> • Describe the software-defined data center concepts • Evolution of the software-defined data center • Introduction to VMware vSphere® virtualization • Introduction to network virtualization 	8 Edge Services <ul style="list-style-type: none"> • Describe NSX Edge network address translation operation • Describe NSX Edge one-arm and inline load balancing • Compare NSX Edge high availability modes • Scale and place NSX Edge appliances
3 Networking Fundamentals <ul style="list-style-type: none"> • Describe Ethernet switching fundamentals • Describe IP routing fundamentals • Identify challenges of traditional data network topologies • Identify data center network topologies optimized for network virtualization 	9 Virtual Private Networking <ul style="list-style-type: none"> • Identify NSX VPN use cases • Configure site-to-site IPsec VPNs • Configure SSL VPNs for remote access • Configure Layer 2 VPN
4 Management and Control Planes <ul style="list-style-type: none"> • Describe the role of VMware NSX Manager™ and VMware NSX Controller™ • Identify NSX Controller clustering best practices • Deploy the NSX Manager and the NSX Controller cluster 	10 Firewalls <ul style="list-style-type: none"> • Describe microsegmentation • Compare the NSX Edge and NSX Distributed Firewalls to traditional firewalls • Configure NSX firewall policies • Configure security groups and security policies with service composer

AVANTUS TRAINING PTE LTD

79 Robinson Road #15-04 CPF Building Singapore 068897

Sales Hotline: (65)64163068

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com

<p>5 Logical Switch Networks</p> <ul style="list-style-type: none"> • Describe VXLAN protocol • Identify VTEP functions • Describe how NSX logical switches process Broadcast, Unknown unicast, and Multicast traffic • Describe ARP suppression • Compare unicast, multicast, and hybrid controller replication modes 	<p>11 Operations</p> <ul style="list-style-type: none"> • Implement NSX role-based access control • Analyze NSX flow monitoring data • Create or modify firewall rules from NSX flow monitoring data
<p>6 NSX Routing</p> <ul style="list-style-type: none"> • Identify supported dynamic routing protocols • Describe the role of the NSX logical router and NSX Edge gateway • Diagram East-West and North-South traffic flows 	<p>12 Automation</p> <ul style="list-style-type: none"> • Describe vCloud Automation Center capabilities • Describe how vCloud Automation Center and NSX interact

AVANTUS TRAINING PTE LTD

79 Robinson Road #15-04 CPF Building Singapore 068897

Sales Hotline: (65)64163068

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com