



Hewlett Packard Enterprise

Course Datasheet

VMware NSX for Internetworking Experts Fast Track

Education Services course product number – H9P71S

Course length – 5 days

Delivery mode – Instructor Led Training (ILT)

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This comprehensive, fast-paced training course is designed for advanced Cisco network administrators who want a comprehensive understanding of how to use VMware NSX™ in their enterprise. This course focuses on how to use the power of the NSX network virtualization and security platform. This course covers NSX as a part of the software-defined data center, implementation, use cases, features, and functionality operating at layer 2 through layer 7 of the OSI model. Cisco-based infrastructure required.

Audience

- Experienced system administrators that specialize in networking

Prerequisites

- Experienced network administrators or system administrators with a strong background in networking
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification

Course Description

- Describe the evolution of the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe Cisco Nexus and UCS products and features relevant to NSX
- Describe NSX layer 2 networking
- Configure, deploy, and use logical switch networks in a UCS environment
- Configure and deploy NSX distributed routers to establish East-West connectivity
- Configure and deploy VMware NSX Edge services gateway appliances to establish North-South connectivity
- Configure and use all the main features of the NSX Edge services gateway
- Configure NSX Edge firewall rules to restrict network traffic
- Configure NSX Distributed firewall rules to restrict network traffic
- Use role-based access to control user account privileges

- Use Activity Monitoring to determine whether a security policy is effective
- Use Flow Monitoring to monitor network traffic streams
- Configure Service Composer policies
- Use VMware NSX API to automate virtual networks
- Design a NSX solution with Cisco Nexus and Cisco UCS

Course Modules

- Module 1: Course Introduction
 - Introductions and course logistics
 - Course objectives
- Module 2: VMware NSX Components for Management and Control
 - Introduction to VMware vSphere(R) virtualization
 - Evolution of the software-defined data center
 - Introduction to NSX
 - VMware NSX Manager.
 - VMware NSX Controller cluster
- Module 3: Logical Switch Network
 - Ethernet fundamentals
 - Overview of VMware vSphere(R) Distributed Switch
 - Link aggregation
 - VLAN
 - VXLAN: logical switch networks
- Module 4: Nexus and UCS Architecture
 - Cisco Nexus switching architecture
 - Cisco UCS connectivity architecture
 - Cisco UCS profiles
- Module 5: VMware NSX Routing
 - NSX routing
 - NSX logical router
 - Layer 2 bridging
 - NSX Edge services gateway
- Module 6: VMware NSX Edge Services Gateway Features
 - Network address translation
 - Load balancing
 - High availability
 - NSX Edge and VPN
- Module 7: VMware NSX Security
 - NSX Edge firewall
 - NSX Distributed firewall
 - Role-based access control
 - Service Composer
 - Security Monitoring
- Module 8: Extensibility and Design
 - NSX API
 - NSX and Cisco design options