Exam Details (Last Updated: 12/13/2019)
The Professional VMware NSX-T Data Center 3.0 exam (2V0-41.20) which leads to VMware Certified Professional – Network Virtualization 2020 certification is a 70-item exam, with a passing score of 300 using a scaled method. Candidates are given an appointment time of 130 minutes, which includes an adequate time to complete the exam for non-native English speakers.

Exam Delivery
This is a proctored exam delivered through Pearson VUE. For more information, visit the Pearson VUE website.

Certification Information
For details and a complete list of requirements and recommendations for attainment, please reference the VMware Education Services – Certification website.

Minimally Qualified Candidate
The minimally qualified candidate should have 6 months or more experience installing, configuring, managing, and troubleshooting NSX-T Data Center 3.0 solutions. Candidates should be knowledgeable of the features, functions, and architectures of NSX-T. They should have at least 6 months hands-on experience with Linux and KVM. They should have 1 year of experience working in IT and with VMware vSphere and its command line. The successful candidate will likely hold additional industry-recognized IT certifications or accreditation. The MQC should have all the knowledge contained in the exam sections listed below.

Exam Sections
VMware exam blueprint sections are now standardized to the seven sections below, some of which may NOT be included in the final exam blueprint depending on the exam objectives.

Section 1 – Architecture and Technologies
Section 2 – Products and Solutions
Section 3 – Planning and Designing
Section 4 – Installing, Configuring, and Setup
Section 5 – Performance-tuning, Optimization, and Upgrades
Section 6 – Troubleshooting and Repairing
Section 7 – Administrative and Operational Tasks
If a section is missing from the list below, please note it is because the exam has no testable objectives for that section. The objective numbering may be referenced in your score report at the end of your testing event for further preparation should a retake of the exam be necessary.

**Sections Included in this Exam**

Section 1 – VMware vSphere Architectures and Technologies - There are no testable objectives for this section

Section 2 – VMware Products and Solutions

- Objective 2.1 Describe the VMware Virtual Cloud Network Vision
- Objective 2.2 Outline the solutions of NSX Portfolio
- Objective 2.3 List the use-cases for NSX Data Center
- Objective 2.4 Explain the value proposition and features of NSX
- Objective 2.5 Identify Physical and Virtual Infrastructure Requirements for NSX-T Data Center
- Objective 2.6 Describe NSX Architecture and Component sub-systems
- Objective 2.7 Differentiate the functionalities of Management Plane, Control Plane, Data Plane, and Consumption Planes
- Objective 2.8 Define NSX-T Data Center Terminology
- Objective 2.9 Describe the Logical Switching Architecture and Features
- Objective 2.10 Describe the Logical Routing Architecture and Features
- Objective 2.11 Describe the NSX-T Data Center Network Services
- Objective 2.12 Explain the Edge Architecture and Features
- Objective 2.13 Explain the NSX Security Architecture and Features
- Objective 2.14 Identify the supported integration platforms of NSX-T (Containers, Public Cloud, Private Cloud, Hybrid Cloud, DevOps tools, 3rd Party etc.)

Section 3 – There are no testable objectives for this section.

Section 4 – Installing, Configuring, and Setting Up a VMware vSphere Solution

- Objective 4.1 Outline the installation and preparation workflow of NSX-T Data Center
- Objective 4.2 Deploy and Configure NSX-T Data Center Environment
- Objective 4.3 Configure Hypervisor Networking [vSphere and KVM] for NSX-T Data Center
- Objective 4.4 Configure and manage Logical Switching Features
- Objective 4.5 Configure and manage Logical Routing Features
- Objective 4.6 Configure NSX-T Edge Nodes and Edge Cluster
- Objective 4.7 Configure NSX-T Data Center Network Services [Layer-3]
- Objective 4.8 Configure NSX Security Features
- Objective 4.9 Configure Service Insertion with NSX-T Data Center

Section 5 – Performance-tuning and Optimizing Upgrades – There are no testable objectives for this section.
Section 6 – Troubleshooting and Repairing

Objective 6.1 Identify the default log file locations of NSX-T Data Center components
Objective 6.2 Compare and Contrast Tools Available for Troubleshooting
Objective 6.3 Troubleshoot Common NSX Installation/Configuration Issues
Objective 6.4 Troubleshoot Common NSX Component Issues
Objective 6.5 Troubleshoot Common Connectivity Issues
Objective 6.6 Troubleshoot Common physical infrastructure Issues

Section 7 – Administrative and Operational Tasks in a VMware vSphere Solution

Objective 7.1 List Operations Tasks in a VMware NSX Environment (syslog, backup/restore etc.)
Objective 7.2 Configure roles and permissions for NSX-T Data Center environment
Objective 7.3 Generate Log bundles
Objective 7.4 Monitor a VMware NSX Implementation

Recommended Courses

VMware NSX-T Data Center: Install, Configure, Manage [V3.0]

References*

In addition to the recommended courses, item writers use the following references for information when writing exam questions. It is recommended that you study the reference content as you prepare to take the exam, in addition to any recommended training.

http://www.vmware.com - [Section and Objective Topics]
http://kb.vmware.com - [Section and Objective Topics]
https://blogs.vmware.com - [Section and Objective Topics]
https://docs.vmware.com - [Section and Objective Topics]
https://pubs.vmware.com - [Section and Objective Topics]
https://www.vmware.com/techpapers.html - [Section and Objective Topics]

Sample Questions

Sample questions presented here are examples of the types of questions candidates may encounter and should not be used as a resource for exam preparation.

Sample Question 1
Which two VMware Cloud Management systems are compatible with NSX-T Data Center capabilities? (Choose two.)

A. VMware Power CLI  
B. vRealize Automation  
C. vRealize CodeStream  
D. VMware Integrated OpenStack  
E. VMware vSphere

Sample Question 2
Which three networking features could be configured using the NSX Manager Simplified UI? (Choose three.)

A. NAT Rules  
B. containers  
C. load balancers  
D. logical routers  
E. segments  
F. logical switches

Sample Question 3
Which discovery protocol is supported for hypervisor transport nodes?

A. Link Layer Discovery Protocol  
B. Cisco Discovery Protocol  
C. Neighbor Discovery Protocol  
D. Adobe Real-time CDP

Sample Question 4
Which two tools could be used to view NSX Policy logs? (Choose two.)

A. NSX Manager CLI  
B. NSX Manager root privileged mode  
C. ESXi host nsxcli  
D. KVM host nsxcli  
E. Edge CLI
Sample Question 5
Which CLI command does a NSX administrator use to obtain information about the NSX Manager configuration when troubleshooting a production system?

A. show configuration  
B. get managers  
C. show interface  
D. get configuration

Sample Question 6 Refer to the exhibit.
A security administrator has configured a gateway firewall rule to block traffic to all Web servers. What can the administrator infer about the rule publication after reviewing the log extract?

A. The user has no permission to create gateway firewall rules.
B. The rule has been successfully realized in the NSX Manager.
C. The rule has been successfully realized in the data path.
D. There was a communication problem with the Central Control Plane.

Sample Question 7
Which command is used to set the NSX Manager's logging-level to debug mode for troubleshooting?

A. set service manager logging-level debug
B. set service nsx-manager logging-level debug
C. set service manager log-level debug
D. set service nsx-manager log-level debug

Sample Question 8
Which three protocols could an NSX administrator use to transfer log messages to a remote log server? (Choose three.)

A. TCP
B. SSL
C. UDP
D. HTTPS
E. TLS
F. SSH

Sample Question 9
A centralized packet analysis tool VM configured to monitor a NSX-T deployment is dropping some of the packets sent to it. Which three actions could minimize the drops? (Choose three.)

A. Increase the RX buffer ring size.
B. Assign more CPU resources to the VM.
C. Use DPDK to improve packet processing performance.
D. Ensure the host 10GbE NIC is configured for full duplex.
E. Increase the TX buffer ring size.
F. Increase MTU on the VM to 9000.

Answer Key: 1-B,D; 2-A,C,E; 3-A; 4-A,B; 5-B; 6-A,B; 7-C, 8-A,C,E; 9-A,B,C

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