**Vendor:** VMware

**Exam Code:** VCPN610

**Exam Name:** VMware Certified Professional - Network Virtualization

**Version:** Demo

**QUESTION 1**
What are two advantages for using NSX for vSphere's Logical Switching? (Choose two.)

A. Expands the number of available VLANs.
B. Allows for Layer 2 switching over Layer 3 infrastructure.
C. Distributes Layer 3 data across multiple hypervisors.
D. Provides for 10,000 logical segments.

**Correct Answer:** BD

**QUESTION 2**
Which statement describes the traffic throughput of the NSX Distributed Firewall?

A. By decoupling the firewall services from the virtualization layer, traffic is directed to the distribution layer for firewall processing within a service module.
B. By deploying firewall software on a per virtual machine basis, firewall services will be distributed across multiple compute nodes.
C. Firewall services are implemented as kernel modules and provide traffic filtering between the virtual machine's vNIC and the vSwitch.
D. Firewall services are distributed as a software firewall appliance and may be deployed on more than one ESXi host for scalability and high availability.

**Correct Answer:** C

**QUESTION 3**
Using VMware's best practices, choose two statements that define the best solution for scaling layer 2 services for the virtual network. (Choose two.)

A. Employ a layer 2 switched network.
B. Employ a layer 3 switched network.
C. Use GRE for an overlay network.
D. Use VXLAN for an overlay network.

**Correct Answer:** BD

**QUESTION 4**
Which component provides for installation of NSX hypervisor kernel components and user world agents?

A. NSX Controller
B. NSX Edge Virtual Appliance
C. NSX Manager
D. vCloud Automation Center

**Correct Answer:** C

**QUESTION 5**
Which NSX service or feature provides optimized management of virtual machine broadcast (ARP) traffic?

A. NSX Controller
B. NSX Manager
C. Edge Services Gateway
D. VTEP

**Correct Answer:** A

**QUESTION 6**

You are tasked with designing a data center architecture that should maximize the use of vMotion within your environment. You must use these VMware best practices:
Which two network design architectures will provide the requirements for vMotion in your data center? (Choose two.)

A. Utilize layer 3 switching from the access layer through the core.
B. Employ layer 2 multipathing using a standardized protocol.
C. Deploy a flat, traditional layer 2 switched network.
D. Deploy an overlay technology for the deployment of your virtual network.

**Correct Answer:** AD

**QUESTION 7**
Which two statements describe the benefits provided by firewall services deployed by NSX? (Choose two.)

A. Firewall services deployed using a software appliance will provide east-west traffic filtering and security.
B. Firewall services deployed using a distributed kernel module will provide east-west traffic filtering and security.
C. Firewall services providing edge security services uses a virtual appliance and is centrally managed.
D. Firewall services providing edge security services uses a distributed kernel module.

**Correct Answer:** BC

**QUESTION 8**
Which two statements are valid regarding vCloud Networking and Security (vCNS) and NSX? (Choose two.)

A. Both vCNS and NSX support multiple hypervisor environments.
B. NSX provides support for multiple hypervisor environments, vCNS does not.
C. Both vCNS and NSX support dynamic routing protocols.
D. NSX supports dynamic routing protocols, vCNS does not.

**Correct Answer:** BD

**QUESTION 9**
An administrator wishes to upgrade to NSX from the following infrastructure:

What is a valid, minimum set of steps to properly upgrade this environment to NSX?

A. 1. Upgrade vCenter Server 4.1 to vCenter Server 5.5 2. Upgrade vShield 5.0 to vShield 5.5 3. Upgrade ESXi hosts to ESXi 5.1 or greater 4. Install the NSX upgrade bundle
B. 1. Upgrade vCenter Server 4.1 to vCenter Server 5.1 2. Upgrade vCenter Server 5.1 to vCenter Server 5.5 3. Upgrade ESXi hosts to ESXi 5.1 or greater 4. Install the NSX upgrade bundle
C. 1. Upgrade vCenter Server 4.1 to vCenter Server 5.5 2. Upgrade ESXi hosts to ESXi 5.1 or greater 3. Install the NSX upgrade bundle
D. 1. Upgrade vCenter Server 4.1 to vCenter Server 5.5 2. Upgrade vShield 5.0 to vShield 5.5 3. Install the NSX upgrade bundle

**Correct Answer:** A

**QUESTION 10**
Layer 2 Multipathing (L2MP) and Multi-chassis Etherchannel (MEC) features have distinct scaling differences with the network switching and routing services provided by NSX.

Which two statements provide a proper contrast of these services? (Choose two.)

A. Multi-chassis Etherchannel features provide higher utilization of Ethernet links within a defined L2/L3 distribution area.

B. Multi-Chassis Etherchannel features provide an easy ability to scale a VLAN across the data center.
C. NSX provides a method to transparently deploy L2MP protocols upon existing data center installations without service disruption.
D. NSX provides a method to deploy scalable L2/L3 services on existing data center installations.

**Correct Answer:** AD

**QUESTION 11**
An administrator has recently deployed NSX, but is still using a pair of physical network security devices. The administrator wants to use the physical security devices to filter virtual machine traffic hosted in the overlay network.
Which NSX component will provide the connectivity between the overlay and the physical network?

A. Distributed Firewall
B. NSX Controller
C. Edge Services Gateway
D. Logical Router

**Correct Answer:** D

**QUESTION 12**
Which two are valid statements regarding third-party services and NSX? (Choose two.)

A. Third party services are automatically registered with NSX Manager.
B. Third party services can either be automatically or manually registered with NSX Manager.
C. Third party services require the deployment of a virtual appliance.
D. Third party services may or may not utilize a service virtual appliance.

**Correct Answer:** BD

**QUESTION 13**
Which VMware NSX for vSphere component can be created on-demand using vCloud Automation Center?

A. The logical switch
B. The logical distributed router
C. The distributed firewall
D. The NSX Edge Services Gateway

**Correct Answer:** A

**QUESTION 14**
What is one way that NSX improves network performance?

A. Virtual machines in different subnets residing on the same host route traffic through an NSX controller, keeping traffic on the host.
B. Virtual machines in different subnets residing on the same host route traffic through an NSX logical router, keeping traffic on the host.
C. Virtual machines in different subnets residing on the same host route traffic through an NSX Edge gateway, keeping traffic on the host.
D. Virtual machines in different subnets residing on the same host route traffic through an NSX switch, keeping traffic on the host.

**Correct Answer:** B

**QUESTION 15**
Which statement is true regarding deploying NSX over a physical network?

A. OSPF can be used for Management traffic in a Layer 3 fabric design.

B. NSX can implement IPv6 on an IPv4 physical network.

C. Routing is supported on bridged interfaces.

D. VLANs are not required to separate traffic between virtual machines.

**Correct Answer:** B

## QUESTION 16
How does NSX simplify physical network design?

A. VLANs are moved into the virtual network for virtual machine traffic, eliminating the need to use PVLANs on the physical network.

B. Network administrators only need to configure routing on the physical network for virtual machine traffic since all other network functions are moved to the virtual network.

C. Transport zones are created in the virtual network for virtual machine traffic, removing the need to make changes to the physical network.

D. Virtual network integration can make changes to the physical network programmatically using REST API calls which automates network changes and increases agility.

**Correct Answer:** C

## QUESTION 17
Which two statements are true regarding NSX? (Choose two.)

A. Workloads can be placed and moved independently of physical topology.

B. Operational efficiency can be achieved through automation of the physical network.

C. Workload deployments are non-disruptive over the existing physical network.

D. NSX implementation requires a VMware vSphere environment.

**Correct Answer:** AC

## QUESTION 18
How does NSX simplify the underlying physical network?

A. All configuration and state information is available via the REST APIs to automate the configuration of the physical network.

B. All configuration and state information are readily accessible, as is the mapping between virtual network topologies and the physical network.

C. All configuration and state information is stored in the local NSX BPDU database, eliminating the need for Spanning Tree Protocol (STP) on the physical network.

D. All configuration and state information is cached by the NSX controllers, reducing the number of MAC/ARP table entries on the physical network.

**Correct Answer:** B

## QUESTION 19
If unicast mode is configured for the overlay transport in an NSX deployment, which two statements correctly define the network support that is required? (Choose two.)

A. Configure NSX High Availability

B. Layer 2 switching support in theaccess and distribution layers

C. Layer 3 switching support in theaccess and distribution layers

D. Configure Jumbo Frame support

**Correct Answer:** CD

## QUESTION 20
Which two characteristics of the underlying physical network does VMware NSX require for robust IP transport? (Choose two.)

A. The physical network should provide scalable network I/O using Layer 2 Multipathing (L2MP) and Multichassis Link Aggregation (MLAG).
B. The physical network should provide scalable network I/O using Equal Cost Multipathing (ECMP).
C. QoS is not necessary since classification and marking will be done in the overlay.
D. QoS classification and marking is required to provide end-to-end flow control.

**Correct Answer:** BD

**QUESTION 21**
In a data center using a leaf and spine architecture, which two statements define the connectivity between the leaf and spine tiers required to provide optimal network connectivity for NSX? (Choose two.)

A. Links are required between leaf and spine switches, and from each spine switch to other spine switches in the architecture.
B. Links are required between leaf and spine switches in the architecture to form a point-to-point connection between the two tiers.
C. High availalability and scalability should be achieved using NSX High Availability.
D. High availability and scalability should be achieved using Equal Cost Multipathing (ECMP).

**Correct Answer:** BD

**QUESTION 22**
-- Exhibit
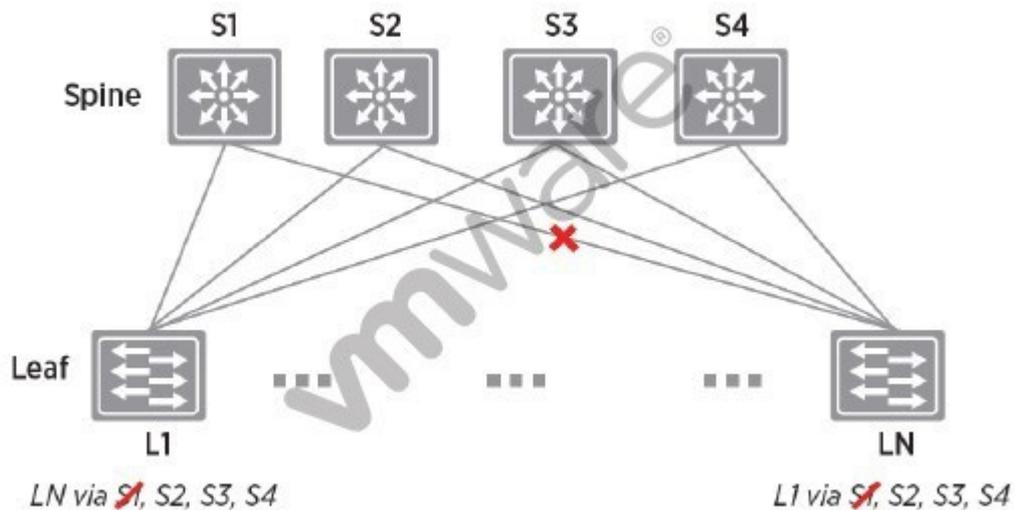


-- Exhibit --

An NSX administrator has deployed the network shown in the diagram:

Based on the diagram, which statement describes a valid method for redirecting traffic around the fault?

A. Building this topology using a layer 2 switched fabric with connectivity between the leafs would allow traffic to be redirected around the fault to another leaf.
B. Building this topology using a layer 3 routed fabric with connectivity between the leafs would allow traffic to be redirected around the fault to another leaf.
C. Building this topology using a layer 2 switched fabric with spanning tree will provide the quickest path around the fault to another spine when connectivity is lost.
D. Building this topology using a layer 3 routed fabric will provide the quickest path around the fault to another spine when connectivity is lost.

**Correct Answer:** D

**QUESTION 23**
-- Exhibit
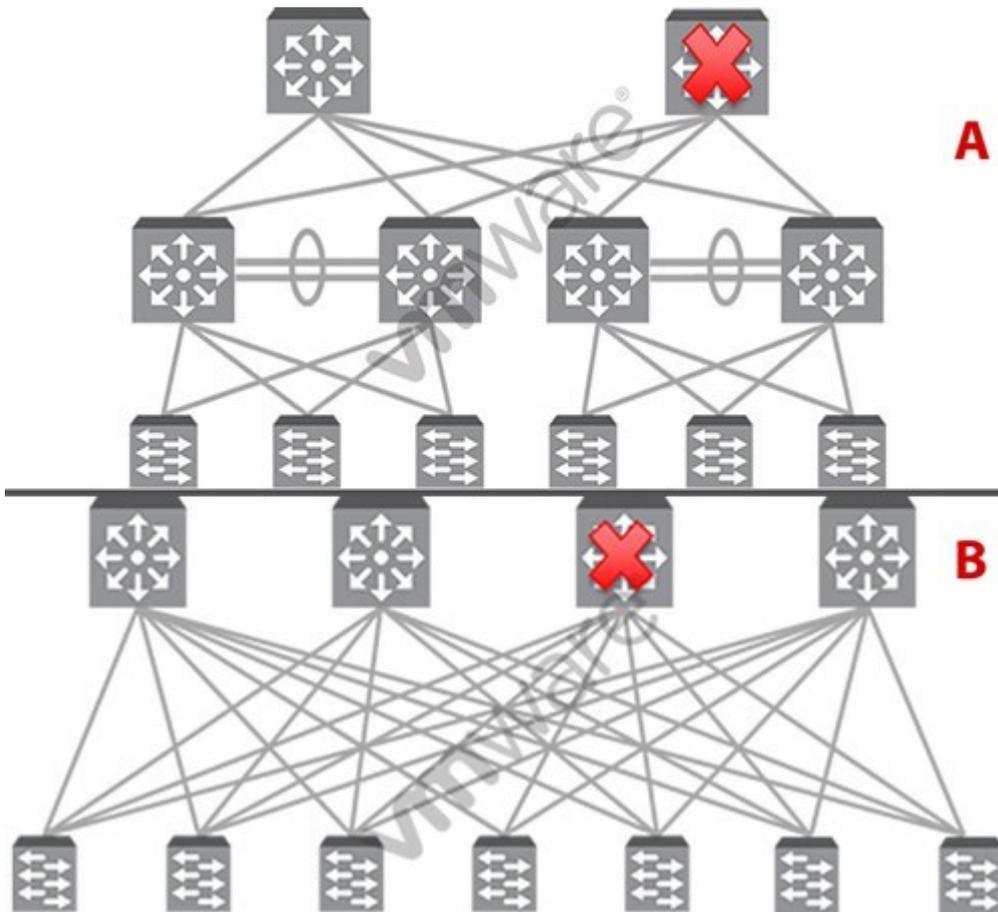


-- Exhibit --

The diagrams show two possible physical network architectures. Each architecture provides a means in dealing with the pictured failure.

Which architecture provides the highest degree of connectivity in the event of the pictured failure?

A. Both designs will provide the same percentage ofconnectivityin times of failure.
B. Neither design is properly architected to work around the displayed failure.
C. Diagram A's architecture will provide the highest percentage of connectivity in times of failure.
D. Diagram B's architecture will provide the highest percentage of connectivity in times of failure.

**Correct Answer:** D

**QUESTION 24**
-- Exhibit
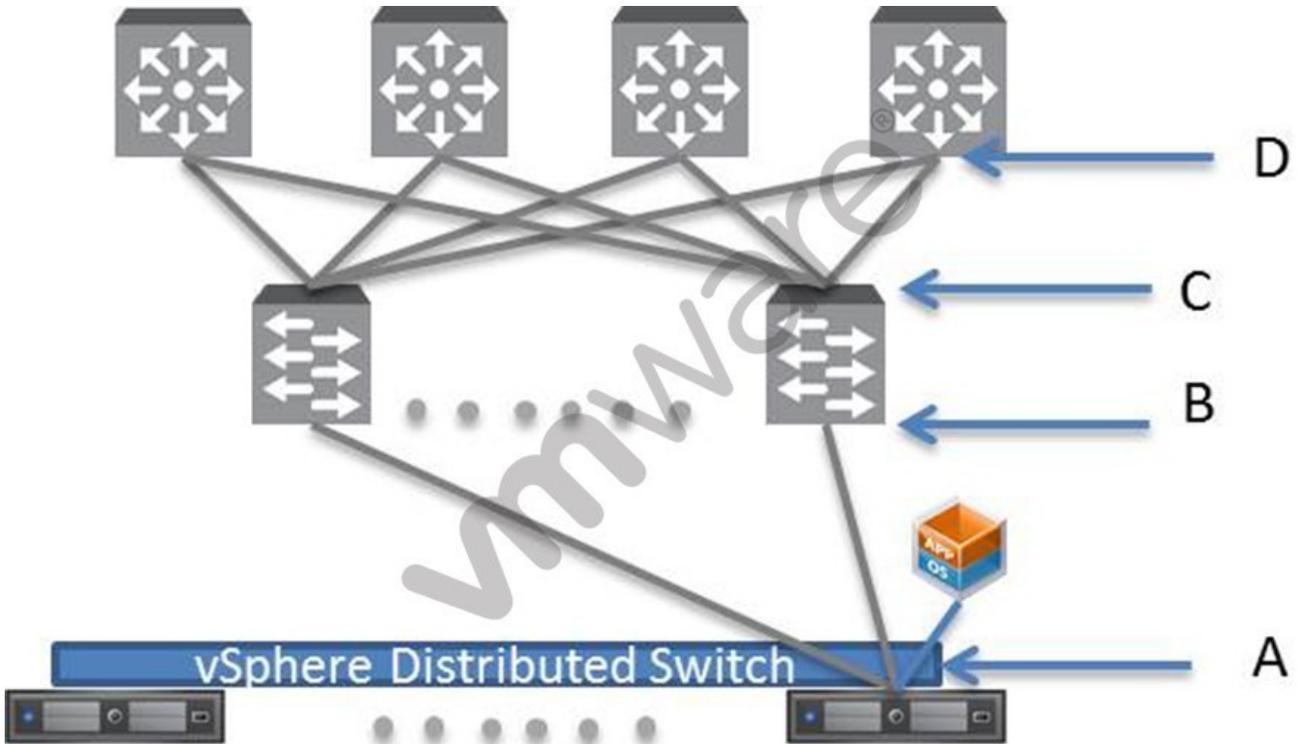
-- Exhibit --

This diagram details the network connectivity from an NSX network and the supporting physical netwo rk. Locations C and D may be required to process packets with QoS tags.

Based on the diagram, which statement details proper processing of packets if they are QoS tagged?

A. Locations C and D will trust the QoS tags of the encapsulated frame when passing packets.
B. Location B should trust the QoS tags of the encapsulated frames that are switched.
C. Location A will mark the inner header of the encapsulated frame.
D. Location B should trust the QoS tags of the external header.

**Correct Answer:** D

**QUESTION 25**
-- Exhibit
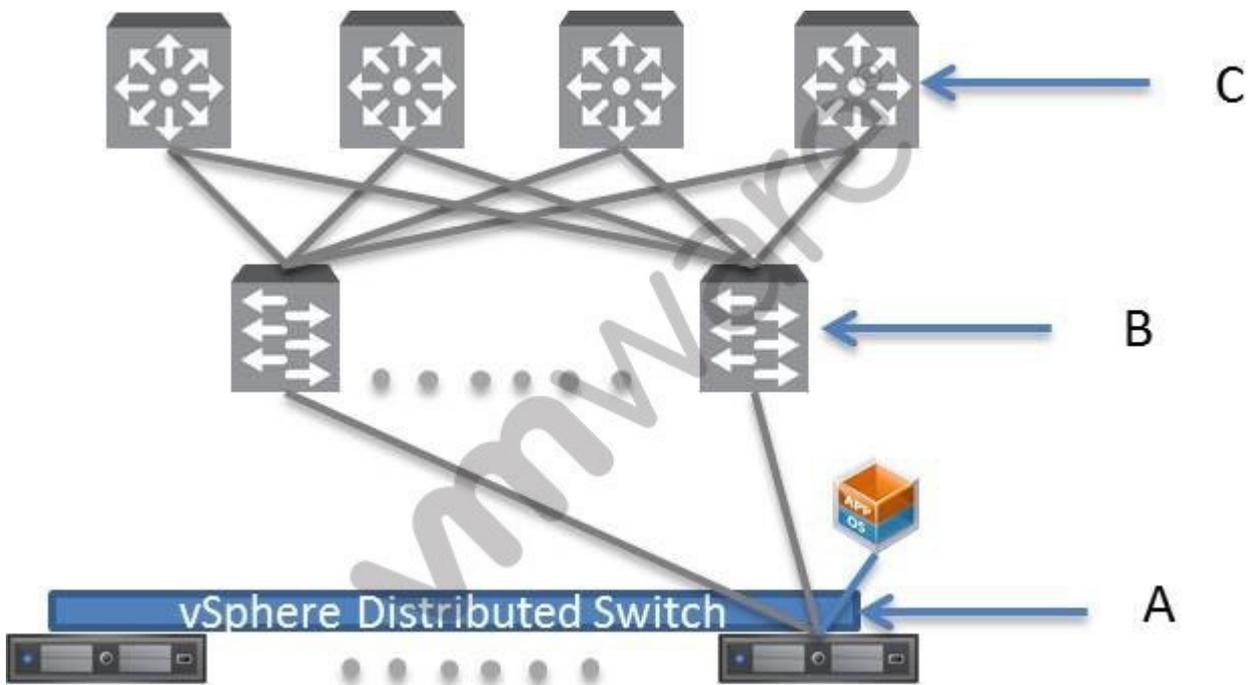
-- Exhibit --

You are designing a network for NSX and your customer has stated that virtual machine traffic needs t o span the virtual and physical space.

Based on the diagram, where should this requirement be configured?

A. Location A
B. Location B
C. Location C
D. Locations B and C

**Correct Answer:** B

**QUESTION 26**
Which two statements describe the network connectivity provided by a vSphere Standard Switch (vSS)? (Choose two.)

A. A vSS provides a direct and logical connection between a virtual machine NIC and a physical NIC.
B. A vSS provides a direct and logical connection between two vSphere Distributed Switches.
C. A vSS connects the vNIC of a virtual machine to the physical network based on the bandwidth of the VM's configured network adapter.
D. A vSS connects the vNIC of a virtual machine to the physical network and is not restricted to a specific bandwidth allocation based on the VM's configured network adapter.

**Correct Answer:** AD

**QUESTION 27**
On a vSS, how does teaming two or more physical network adapters provide load balancing when using the Load Balancing feature Route based on the originating virtual port ID?

A. They physical network adapter is chosen by use of a round robin based algorithm for each additional virtual port in the port group that becomes active.
B. The physical network adapter is chosen by using the source IP address of the virtual machine and the destination IP address as variables in an algorithm.
C. The physical network adapter is chosen by using the source MAC address as a variable in an

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