

HP

Exam HP2-Z21

Planning and Designing HP Enterprise Networking Solutions

Version: 7.4

[Total Questions: 46]

Question No : 1

What are two features that routing switches operating in a campus core must support in order to handle the vast amounts of data, voice, and video traffic in the contemporary enterprise LAN? (Select two.)

- A. They must support hierarchical QoS technologies and virtual routing and forwarding (VRF) protocols.
- B. They must support non-blocking forwarding for large amounts of switched and routed traffic.
- C. They must scale with ease.
- D. They must take a primary role in controlling security threats, in particular threats on virtualized servers that might never cross the wire.
- E. They must take a primary role in determining endpoint compliance with company policies.

Answer: A,B

Explanation: VRF functionality on Layer 3 switches can be used to link VLANs within a campus. When a large campus wide virtual network becomes too large to remain a single broadcast domain, it must be subdivided. Layer 3 switches supporting VRF are used to break the virtual network into separate VLANs, each of manageable size.

As administrators gain more experience, virtual systems will grow to include larger numbers of servers and storage, and components will spread across the wide area. VRF is the enabling technology for subdividing virtual networks that connect virtual servers with storage.

For non-blocking forwarding, check the following resource:

Reference: <http://ciscoarticles.com/CCNP-CCIE-Complete/Non-blocking-Switches.html>

Question No : 2

What is an advantage of installing Converged Network Adapter (CNA) NICs on virtualized servers?

- A. One CNA NIC typically costs less than one traditional Ethernet NIC but provides adequate performance for servers that have been optimized with virtualization.
- B. CNA NICs enable servers to act as Fiber Channel over Ethernet (FCoE) gateways between SAN and LAN switches.
- C. CNA NICs provide the high-speed connection required for servers to receive Fiber Channel over Ethernet (FCoE) traffic.

D. Unlike traditional Ethernet NICs, CNA NICs support IPv6, a necessary protocol for data centers of the future.

Answer: C

Reference:

<http://h20000.www2.hp.com/bc/docs/support/SupportManual/c01681871/c01681871.pdf>
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Question No : 3

Which features are necessary in the enterprise aggregation layer? (Select three.)

- A. It must support high-speed traffic delivery.
- B. It must be highly available.
- C. It must be flexible.
- D. It must take a primary role in controlling user access to the network.
- E. It must take a primary role in controlling access to network resources.

Answer: A,B,C

Explanation: The access is controlled by access layer. Therefore, the only possible answers are A, B and C.

Question No : 4

As a data center becomes virtualized and begins to implement cloud computing, how does the traffic flow typically change?

- A. Both north-south (client-server) and east-west (server-to-server) traffic often increase.
- B. The speed and reliability of storage traffic transmission increases.
- C. The traffic flow shifts from primarily server-to-server to primarily server-to-client.
- D. Traffic decreases as more data is processed locally on users' workstations.

Answer: A

Question No : 5

Which is an effect of virtualization on the data center networking infrastructure?

- A. Virtualized servers use less RAM.
- B. Virtualized servers use less processing power.
- C. Virtualized servers require more bandwidth.
- D. Because services and applications running on the virtualized server can interfere with each other, they must be closely monitored.

Answer: C

Reference: http://www.xsigo.com/solutions/cost_savings.php

Question No : 6

Which two steps compose phase 1 of HP networking's SAN/LAN convergence plan?
(Select two.)

- A. Deploy some Network Attached Storage (NAS).
- B. Deploy some Internet Small Computer System Interface (iSCSI) storage.
- C. Deploy some Fiber Channel over Ethernet (FCoE) switches at the server edge.
- D. Replace some server Fiber Channel and Ethernet NICs with Converged Network Adapters (CNAs).
- E. Gradually converge the entire network infrastructure to CE

Answer: C,D

Reference:

<http://h20000.www2.hp.com/bc/docs/support/SupportManual/c01681871/c01681871.pdf>

Question No : 7

A company has rack servers that connect to HP A5820 Series switches. Each physical server supports several virtual server instances, and server administrators have recently moved several virtual servers to new machines. What is the process for provisioning the switch port to which the server connects after the move?

- A. The transported server dynamically provisions the connection.
- B. VMotion dynamically provisions the connection for the transported server on its own.