# HP0-J64 Q&As

Designing HP Enterprise Storage Solutions

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**QUESTION 1**

CORRECT TEXT

Scenario

Following the merger of two financial companies, management is considering combining the two distinct customer call centers into a single physical location. In addition to the overall call center headcount increasing by 30%, the support for

two distinct customer bases presents the potential of having two different desktop PCs on the desk of each call center employee. Instead of correspondingly increasing IT support headcount to manage the single, larger call center and call

center infrastructure, management believes they can reduce the required time to support call center operations by 40% if they employ virtual desktop technology.

An initial assessment has identified the need for a centralized storage solution that could support 500 virtual desktops running a variety of applications that can scale quickly to accommodate an expected increase in call center staff. The

customer is already an HP Blade System customer using HP Virtual Connect Flex-10.

Some of the additional business criteria identified in customer planning interviews includes:

Use client virtualization for the desktops.

Achieve the highest possible density and performance for the virtual desktops,but keep the virtual desktop storage traffic off the network due to a current, existing limitation of only 1GbE.

Do not use standalone, network-attached storage.

Limit the impact of additional rack space.

Minimize the risk of additional help-desk tickets.

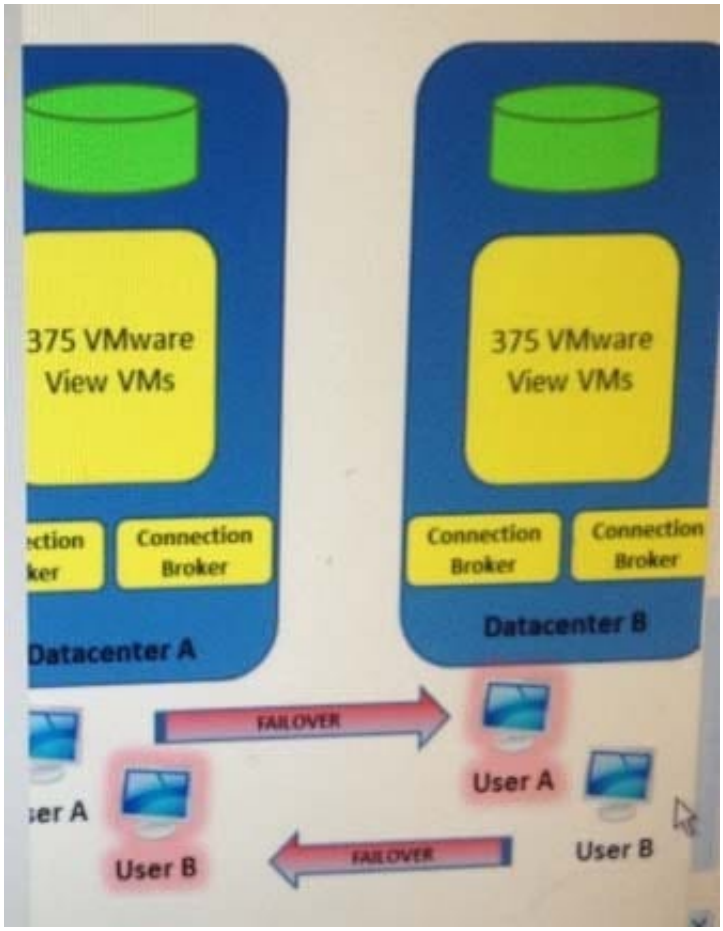
Present multiple solutions, prioritized with a recommendation.

Refer to the scenario.

The customer realized that they did not include any requirements for high availability. They need to ensure that at least 75% of the users can be supported from any location in the event of a disaster while keeping implementation costs as low

as possible. They tell you that all users are non-persistent, use the same desktop image, and that the network can be upgraded to 10Gb.

Which diagram demonstrates how the solution should be modified to meet the new requirements?




Correct Answer: Check the answer in explanation.

User A in DataCenter A (375 VmWare) transfer to DataCenter B User B in DataCenter B (375 VmWare) transfer to DataCenter A Not replication between DataCenter A and DataCenter B

**QUESTION 2**

Which feature must the B-series switch support when connecting an HP Virtual Connect FlexFabric module to a B-series switch?

A. ISL trunking

B. NPIV

C. encryption

D. extended fabric

Correct Answer: B

Virtual Connect FlexFabric Module Hardware Overview The Virtual Connect FlexFabric module is the first Data Center Bridging (DCB) and Fibre Channel over Ethernet (FCoE) solution introduced into the HP BladeSystem portfolio. It provides 24 line rate ports, Full-Duplex 240Gbps bridging, single DCB-hop fabric. As shown in Image 1, there are 8 faceplate ports. Ports X1-X4 are SFP+ transceiver slots only; which can accept a 10Gb or 8Gb SFP+ transceiver. Ports X5-X8 are SFP and SFP+ capable, and do not support 8Gb SFP+ transceivers.

B-series Switches Flexible Fabrics High Speed 16Gb optimized inter switch links (ISLs) provide twice the performance as previous generation Fibre Channel switches. The net result is there are fewer links, fewer cables, fewer ports and less power for the same performance.

Overview The HP 8/24 SAN switch addresses the needs of SMB organizations as well as large enterprises by functioning as a standalone core switch or as lower-cost edge switch in large core-to-edge tiered storage networks. The 3/24 SAN switches provides unprecedented investment protection. Auto-sensing ports that support backward compatibility with 1, 2, 4, and 8 Gbit/sec devices significantly reduce deployment complexity and costs, while providing compatibility with installed devices. Organizations that do not require 8 Gbit/sec interfaces can populate the new switches with 4 Gbit/sec SFPs, while preserving their ability to- easily upgrade to 8 Gbit/sec SFPs in the future. The 8/24 SAN Switch with 24 enabled ports may be deployed as a full-fabric switch or in Access Gateway mode, which provides connectivity into any SAN (the default mode setting is a switch). Access Gateway mode utilizes NPIV switch standards to present Fibre Channel connections as logical devices to SAN fabrics.

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# HP H-series Switch Cross Reference Guide

| Single Power Supply | | | | | | |
|---|---|---|---|---|---|---|
| Features | H-series | | B-series | B-series | B-series | C-series |
| | 8/20q | SN6000 Single Power Supply | 8/8 Base SAN | 8/8 SAN Switch | 8/24 SAN Switch | SN6000c |
| HP® Part Number | AQ233A/B 8-port AK242A/B 16-port | BK730A/B 12-port AW575A/B 20-port | AM866A | AM867A | AM868A | AW585A 16-port AW586A 32-port |
| Host/Storage Device Ports | 8 – 20 | 12 – 20 | 8 – 24 | 8 – 24 | 16 – 24 | 16 – 48 |
| Dedicated High-Speed ISL Ports | | Yes – 4 10Gb (20Gb-Capable) Stacking Ports Included | Must Use Device Ports | Must Use Device Ports | Must Use Device Ports | Must Use Device Ports |
| Fibre Channel Speed | 8/10/20Gb | 8/10/20Gb | 8Gb | 8Gb | 8Gb | 8Gb |
| Aggregate Device Bandwidth (max) | 320Gbps | 544Gbps | 408Gbps | 408Gbps | 408Gbps | 816Gbps |
| HP List Price (all ports active) | $5,499 | $10,500 | $10,879 | $11,779 | $10,589 | $35,997 |
| Full Fabric Support | Yes | Yes | No | Yes | Yes | Yes |
| Array Provisioning (LUN creation, mounting directly from switch management interface) | MSA/P2000 and P6000/EVA | MSA/P2000 and P6000/EVA | No | No | No | No |
| ISL Trunking | Included | Included | No | Requires Per-Switch License, Additional Cost | Requires Per-Switch License, Additional Cost | Included |
| Fabric Management | SCM[1] Included | SCM[1] Included | No | Optional, Additional Cost | Optional, Additional Cost | Optional, Additional Cost |
| Multi-Vendor Fabric Interoperability | Transparent Router (Per Port or Entire Switch) | Transparent Router (Per Port or Entire Switch) | No | Access Gateway (Entire Switch Only) | Access Gateway (Entire Switch Only) | NPV (Entire Switch Only) |
| Zoning Software | Yes – Intuitive Drag/Drop Interface | Yes – Intuitive Drag/Drop Interface | Yes | Yes | Yes | Yes |
| Fabric Performance and Monitoring Software | Optional EFMS[2] Software | Optional EFMS[2] Software | No | Optional Power Pack+ Software | Optional Power Pack+ Software | Optional Fabric Manager Software |
| Hot Plug Redundant Power Supplies | No | No | No | No | Yes | Yes |
| SFPs | Standard | Standard | B-series Specific | B-series Specific | B-series Specific | C-series Specific |

[1] SCM = SAN Connection Manager [2] EFMS = Enterprise Fabric Management Suite

**QUESTION 3**

Which device type for server-side deduplication does HP Data Protector use?

A. OST

B. Implicit

C. Catalyst

D. Explicit gateway

Correct Answer: D

**QUESTION 4**

Which HP 3PAR StoreServ functionality or component should be highlighted during a proposal presentation to support the customer goal to run a 24x7 business?

A. HP 3PAR StoreServ Persistent Ports

B. HP 3PAR 2-port 10 Gb/S iSCSI/FCoE SAN

C. HP 3PAR StoreServ Data At Rest Encryption

D. HP 3PAR Virtual Service Processor

Correct Answer: A

**QUESTION 5**

Your customer has an existing HP StoreVirtual P4500 G2 multi-site SAN, which has become I/O constrained. They want to implement a new higher performance tier into the existing management group. Which Peer Motion method provides the ability to dynamically rebalance data volumes to the higher performance tier?

A. Dynamic LUN management

B. Cluster swap

C. Remote Copy

D. Volume migration

Correct Answer: D

http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-2922ENW.pdf

Peer Motion on HP StoreVirtual Storage: Volume migration Peer Motion on HP StoreVirtual Storage allows a system administrator to move an HP StoreVirtual volume from one cluster to another, online, without having to reconfigure the host or applications. This is done by simply editing the properties of a volume, selecting the Advanced tab, and choosing a new cluster from the cluster drop-down box. The blocks that make up the volume on the original cluster will begin to migrate to the new cluster, and the LeftHand OS will automatically redirect and proxy requests for blocks to the proper cluster as the data migration is underway. When the migration is complete the iSCSI sessions to the new cluster from the host are automatically restored (assuming the new cluster\\'s virtual IP address has been added to the iSCSI configuration of the host server). A typical use case for Peer Motion could be a volume that contains data for an application that has increasing performance needs. If The volume started out on an MDL SAS cluster, a storage administrator could use Peer Motion to move the volume to a SAS-based cluster. If the volume is on a SAS cluster, the storage administrator could choose to add more nodes to the cluster to provide more performance for the volume, or they could choose to move the volume to an even higher performing tier, such as an SSD-based cluster.

Peer Motion on HP StoreVirtual Storage: Cluster swap The virtualization of storage within an HP StoreVirtual cluster means that the rules about data being tied to physical hardware resources no longer applies. This virtualization allows volumes to be moved dynamically between different physical hardware clusters, and also allows for a feature called cluster swap--the ability to remove existing storage nodes from a cluster and replace them with new storage nodes, online,

with no loss of data or data availability.

In one operation, data from the old storage nodes is moved to the new storage nodes, and all IO is properly directed to the correct node. Upgrading to newer, faster, or larger storage nodes does not require any downtime, providing a clear, well-defined strategy for future expansion and growth. As an example, a customer might start out with a cluster of 8 drive systems. As the customer adds more applications and workload to the cluster, they could reach the Performance or capacity limit of the nodes. They could easily migrate to nodes with 12 or more drives to increase capacity and performance, without having to bring any applications offline.