



# HP0-J64<sup>Q&As</sup>

Designing HP Enterprise Storage Solutions

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## QUESTION 1

A very large application service provider (ASP) is going through a major virtualization effort. After the initial meeting with the ASP team, your notes are:

- Customer objective is to virtualize their environment. Modernize and simplify their infrastructure
- All servers are on HP BladeSystem c7000 Virtual Connect 1/10-F and Virtual Connect FC modules, G5 physical blade servers. Lease is up.
- 48 blades require virtualization and NFS connections. Existing filer is third party Lease is up to Need more I/O and Scale.
- 12 blades are Clustered SQL Server. No virtualization on these blades required. Storage today is on new FC-based HP 3PAR StoreServ 7400
- 16 new virtualized servers are targeted to be connected to the existing HP 3PAR StoreServ 7400 FC

As you develop a proposal, what should be part of the design to meet the customer goals? (Select two)

- A. Add an HP StoreEasy X3830 Gateway rackmount server to the front end of the 3PAR
- B. Add an HP StoreEasy X5000 rackmount server to the front end of the 3PAR
- C. Add new Hp BladeSystem c700s and Gen8 blades with Virtual Connect Flex 10
- D. Add new Hp BladeSystem c700s and Gen8 blades with HP Virtual Connect Flex Fabric.

Correct Answer: AD

Storage today is on new FC-base HP 3PAR StoreServ 7400 FC HP Virtual Connect FlexFabric: HP Virtual Connect FlexFabric 10Gb/24-port Modules are the simplest, most converged and flexible way to connect virtualized server blades to any data or storage network. VC FlexFabric modules eliminate up to 95% of network sprawl at the server edge with one device that converges traffic inside enclosures and directly connects to LANs and SANs.  
<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA1-0311ENW.pdf>

HP Virtual Connect Flex-10 Simplify and make your data center change-ready. The HP Virtual Connect Flex-10 10Gb Ethernet Module for c-Class BladeSystem allows administrators to fine-tune network bandwidth at the server edge by dividing each 10 Gb network connection into four independent physical FlexNIC server connections. Each FlexNIC can be configured from 100 Mb up to 10 Gb, allowing just the right amount of network bandwidth based on your application needs.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA1-0311ENW.pdf>

HP StoreEasy X5000 <http://www8.hp.com/pt/pt/products/file-object-storage/product-detail.html?oid=5335827#!tab=features>

HP StoreEasy 5000 Storage is a new breed of efficient, secure, and highly available storage to simply address the file and application storage challenges of customers' medium to large business and branch office environments. StoreEasy 5000 Storage, built on industry leading ProLiant DNA and Microsoft Windows Storage Server, integrates easily into new and existing environments with a straightforward, consistent management experience for IT generalists.

HP StoreEasy X3830 <http://www8.hp.com/pt/pt/products/file-object-storage/product-detail.html?oid=5335920#!tab=features>



## [-] SAN / Array Compatibility

### Host Bus Adapter (HBA) Support

HP StoreEasy 3000 Gateway Storage products are designed to be connected to a SAN or storage array by adding a recommended Fibre Channel or SAS HBA, or by using an iSCSI initiator.

HBA selection is left as your choice based on existing infrastructure and/or desired array support. Please see compatible HBAs listed in the 'Options' section below.

**NOTE: See the following URL for additional information about Fibre Channel HBAs:**

<http://h18006.www1.hp.com/storage/saninfrastructure/hba.html>

### HP SAN / Array Support

HP 3PAR  
StoreServ

[http://h18006.www1.hp.com/storage/disk\\_storage/3par/index.html](http://h18006.www1.hp.com/storage/disk_storage/3par/index.html)

HP StoreVirtual

[http://h18000.www1.hp.com/products/quickspecs/13254\\_div/13254\\_div.html](http://h18000.www1.hp.com/products/quickspecs/13254_div/13254_div.html)

HP P9000/XP

<http://h18006.www1.hp.com/storage/xparrays.html>

HP P6000/EVA

<http://h18006.www1.hp.com/products/storageworks/eva/index.html>

HP P2000/MSA

[http://h18006.www1.hp.com/storage/disk\\_storage/msa\\_diskarrays/index.html](http://h18006.www1.hp.com/storage/disk_storage/msa_diskarrays/index.html)

In client virtualization environments, up to 80% of network traffic is server-to-server and server-to-storage. Legacy, multi-tier, fibre-channel network architectures require a complex web of network cards, interconnects, cables, and switches to

keep pace with this changing traffic. This approach creates performance bottlenecks and drives higher costs and complexity to build, maintain, and secure at scale.

To address this problem HP announced HP Virtual Connect for 3PAR with FLAT SAN technology, the industry's first direct connection to fibre channel-based storage that does not require dedicated switches. This technology provides a

simplified architecture with best-in-class storage and network innovations such as BladeSystem Virtual Connect, and the HP 3PAR StoreServ.

Customer benefits include these features:

Single layer fibre channel storage network eliminates SAN switches and Host Bus Adapters (HBAs)

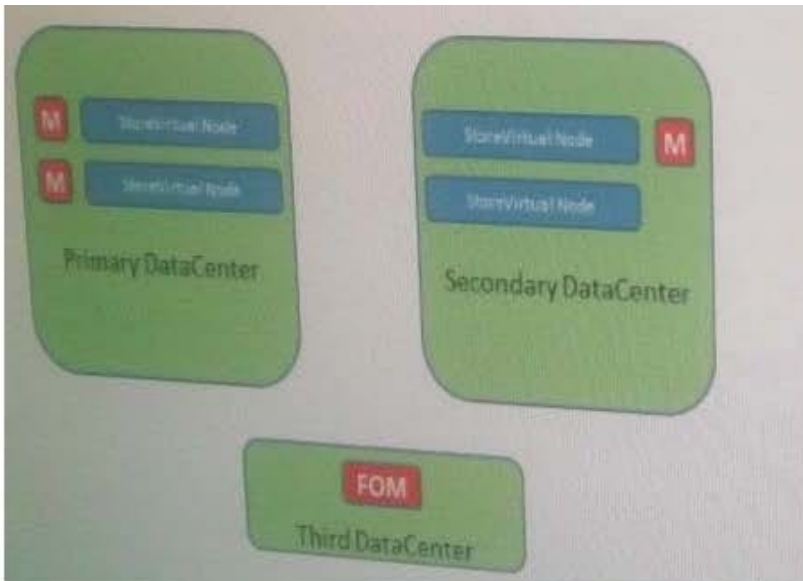
- Massive simplification of fabric management
- 2.5x faster fibre channel storage provisioning
- 50% less infrastructure costs
- Automated zoning capabilities to set up zones with one-click
- Up to 55% less latency by removing the SAN fabric layer

## QUESTION 2

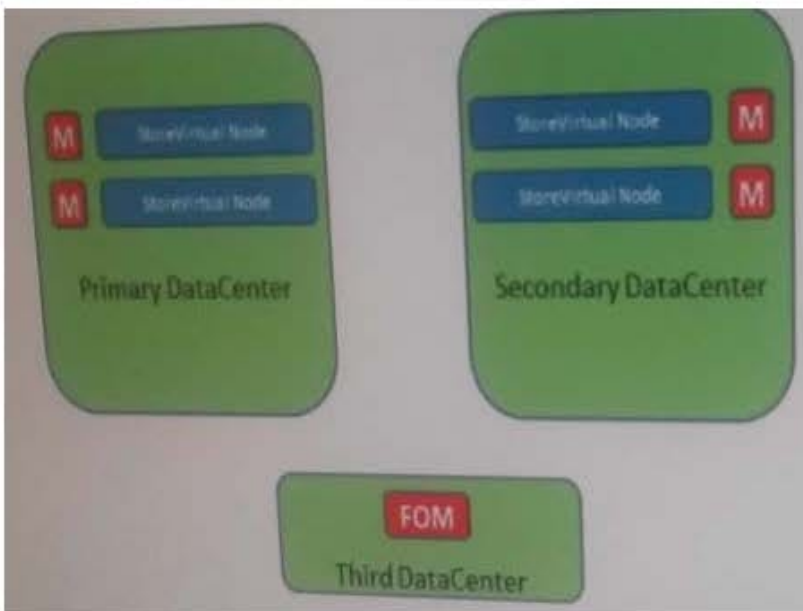
Your customer has the requirement for high availability automated data failover in their environment. You design an HP StoreV cluster. During the initial presentation you describe the process of the failover. What is correct Manager (M) and Failover Manager (FOM) configuration to fulfill the customer requirements?



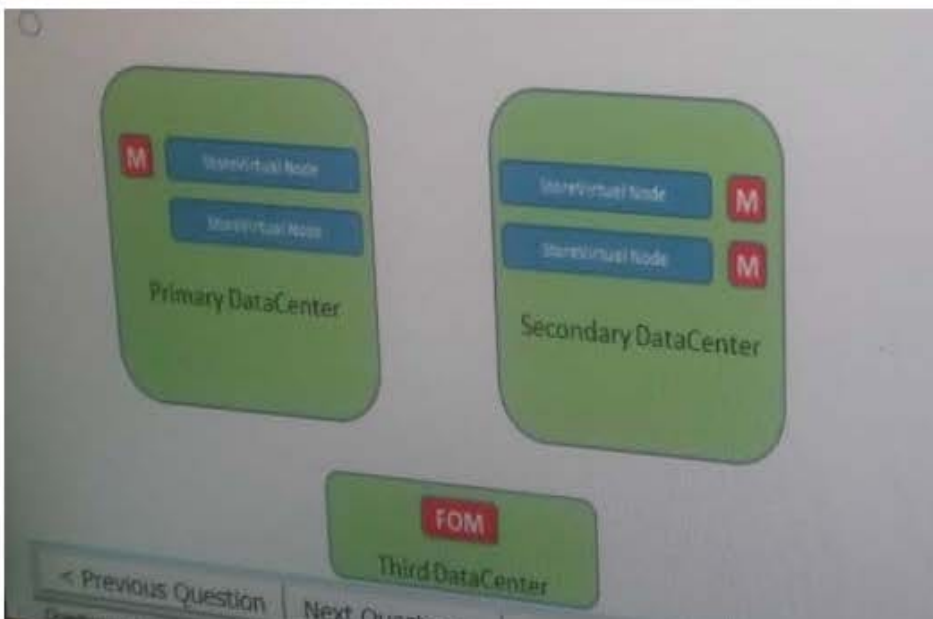
A.



B.

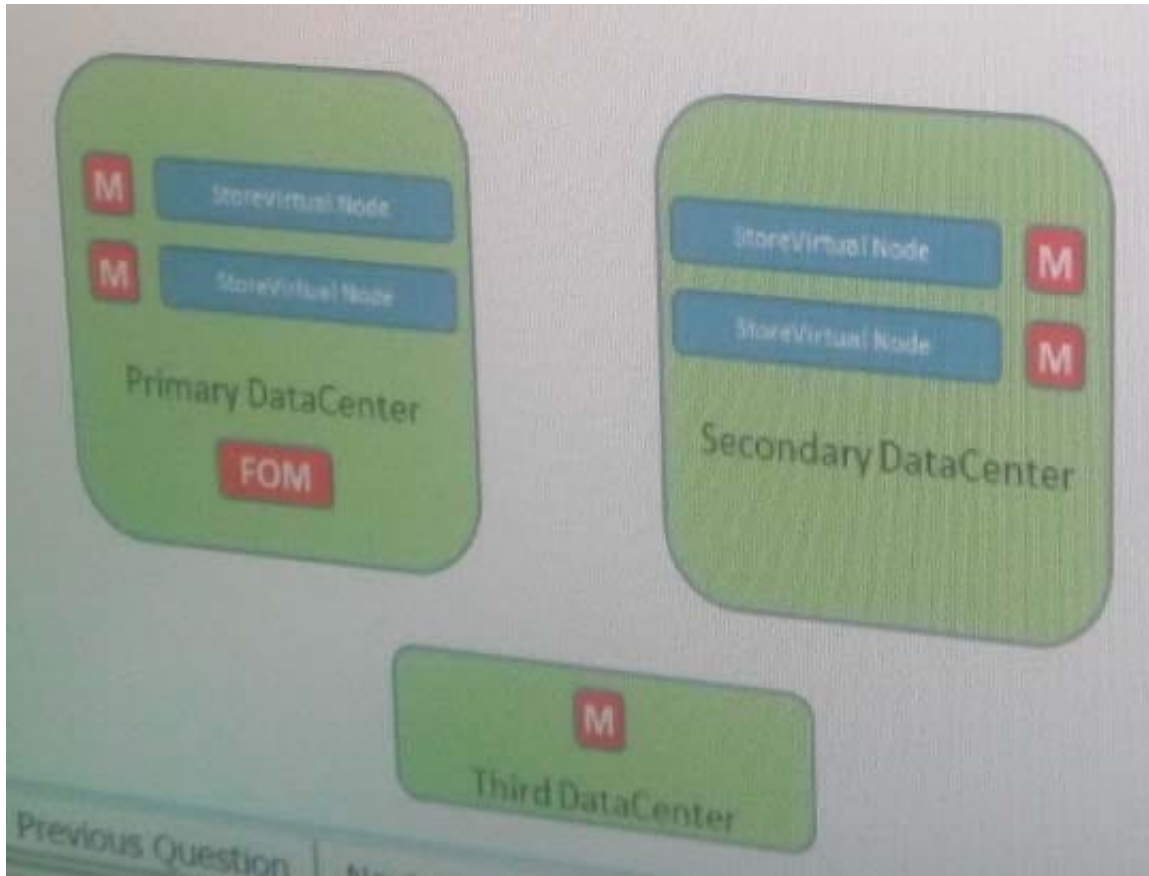


C.





A. B. C.



D.

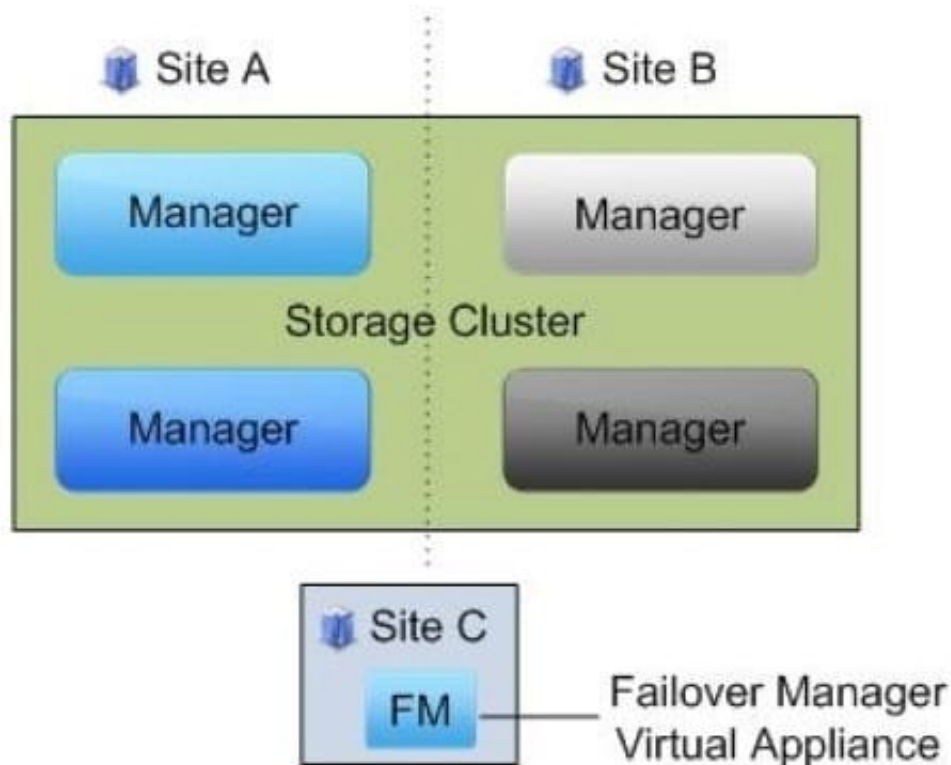
Correct Answer: B

<http://frankdenneman.nl/2009/10/11/left-hand-san-lessons-learned/> Failover manager

A failover manager is a special edition of a manager. Instead of running on a storage node, the failover manager runs as a virtual appliance. A failover manager's only function is maintaining quorum. When designing a SAN spanning two sites,

running a failover manager is recommended. The optimum placement of the failover manager is a third site. Place an even amount of managers in both sites and run the failover manager at an independent site.





<http://bizsupport2.austin.hp.com/bc/docs/support/SupportManual/c01727773/c01727773.pdf>

### QUESTION 3

Which rule applies when designing a routed HP StoreVirtual 4000 Remote Copy environment to replicate data from a branch office to the main data center?

- A. The two IP subnets must have IP routes to each target network with forwarding.
- B. The two IP subnets must have IP routes to each target network with direct access mode configured.
- C. The two IP subnets must have IP routes to each target network without network address translation.
- D. The two IP subnets must have IP routes to each target network without a private VPN tunnel used.

Correct Answer: C

IP networking requirements You can use HP P4000 remote copy from one cluster to another cluster on a single IP subnet as well as across routed environments. In a routed environment, the two IP subnets must have IP routes to each target network without network address translation (NAT) or port forwarding. You can employ private WAN connections using point-to-point protocols, or you can set up a VPN tunnel between two networks that are separated by the public Internet. The VPN tunnel effectively acts as one hop on a router and will allow the use of private IP space on each end.

<http://h17007.www1.hp.com/docs/justrightit/HP%20StoreVirtual%20P4000%20Networking%20Recommendations.pdf>

### QUESTION 4

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.

Select the HP MSA configuration with SAS + SSD drives that will satisfy the customer requirements.

- A. HP MSA 1040, with converged controller and FC sfp
- B. HP MSA 1040, with GbE Ports
- C. HP MSA2040, with converged controller and Ethernet sfp
- D. HP MSA2040, with SAS controller

Correct Answer: D

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## QUESTION 5

A small service provider customer is in the process of a merger and needs to purchase additional IT infrastructure components to support the expansion of their customer base. The goal is to offer same-day repair from any hardware failures and increased high availability from the servers to the local array.

The new proposal provides the following Bill of Materials (BOM):

- HP StoreSure 2000 - 155 TB of Midline SAS SFF Drives - FC Controller Pair
- A pair of HP SN6000B 16Gb 48-port/48-port Active Fibre Channel switches

-



HP P2000 Remote Snap Software

-

HP SN1000 2 Port 16 Gb HBAs

-24 Fibre Channel cables

-10 HP ProLiant DL360 Gen8s

-vSphere Enterprise Plus and vCenter licenses from HP

-Call-to-repair 24x7 coverage with four-hour on-site response

The customer operating budget is constrained, and the price of the BOM is too high. Which components do you propose to change to meet their budget goals without sacrificing their critical to quality goals? (Select two.)

- A. Modify the vSphere Enterprise Plus licenses to vSphere Enterprise.
- B. Modify the HP SN6000B 48/48 switches to 48/24 switches.
- C. Modify the HP SN600B 48/48 switch count to a quantity of one.
- D. Modify the HBA connections by 50%.
- E. Modify the Support to Next Business Day.

Correct Answer: AB

If you remove one fabric it's no longer a HA solution. But they need only activate 12 ports on each switch, and vSphere Enterprise Plus only add manageability [http://h18000.www1.hp.com/products/quickspecs/14212\\_div/14212\\_div.pdf](http://h18000.www1.hp.com/products/quickspecs/14212_div/14212_div.pdf)  
[http://h18004.www1.hp.com/products/quickspecs/14104\\_div/14104\\_div.pdf](http://h18004.www1.hp.com/products/quickspecs/14104_div/14104_div.pdf)

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