

HP

Exam HP0-J64

Designing HP Enterprise Storage solutions

Version: 6.6

[Total Questions: 130]

Question No : 1

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.

You suggest VMware View as a solution component to solve some of the customer business challenges.

Which step should you take next to ensure that the solution meets HP best practices for VMware View?

- A. Validate compatibility using HP Single Point of Connectivity Knowledge(SPOCK).
- B. Validate configuration using the HP SAN Design Reference Guide.
- C. Create the HP Virtualization Bundle configuration in SalesBUILDER for Windows to validate connectivity.
- D. Compare the design to the HP Client Virtualization Enterprise Reference Architecture.

Answer: D

Explanation:

<http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA3-5327ENW.pdf>

Enterprise Reference Architecture for Client Virtualization for HP VirtualSystem
Implementing the HP Architecture for Citrix XenDesktop on Microsoft Windows Server
2008 R2 Hyper-V.

<http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-2003ENW.pdf>

HP Gen8 Client Virtualization Enterprise Reference Architecture for VMware View 5.1

Question No : 2

A customer is planning to move four HP BladeSystem c7000s to another location. The Onboard Administrator firmware is at the current version. The disk drives and Virtual Connect Flex-10 modules must be removed before shipment.

Which design impact must be considered if the Virtual Connect Flex-10 modules are not reinstalled in their original locations?

- A. The Virtual Connect configurations on the installed chassis will be overwritten.
- B. The blade chassis will be reset to factory defaults.
- C. The original Virtual Connect configurations will remain intact.
- D. All server network and SAN connections will be disabled.

Answer: D

Explanation:

http://h20565.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay/resource.process/?spf_p.tpst=kbDocDisplay_ws_BI&spf_p.rid_kbDocDisplay=docDisplayResURL&javax.portlet.begCacheTok=com.vignette.cachetoken&spf_p.rst_kbDocDisplay=wsrp-resourceState%3DdocId%253Demr_na-c03801914-2%257CdocLocale%253D&javax.portlet.endCacheTok=com.vignette.cachetoken

Connecting multiple enclosures

Virtual Connect supports the connection of up to four c7000 enclosures, which can reduce the number of network connections per rack and also enables a single VC Manager to control multiple enclosures. A single set of cables can be used to carry all external Ethernet traffic from a single rack.

Multiple enclosure support enables up to four c7000 enclosures to be managed within a single Virtual Connect domain.

Question No : 3

Which HP MSA storage solution provides support for SSD and replication?

- A. HP MSA 1040
- B. HP MSA 2040
- C. HP MSA P2000 G3 Combo controller
- D. HP MSA P2000 G3

Answer: B

Reference:<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-6608ENW.pdf>(page 1)

Question No : 4

You are responding to a request for proposal (RFP) for a new HP 3PAR StoreServ array. The company decision-market has asked you to justify the cost of the array.

Which benefits of the Alinean ROI Analysts should be included in the business case to justify the cost of the array (Select three)

- A. regulatory documentation
- B. payback period
- C. competitive data
- D. internal rate of return (IRR)
- E. value proposition
- F. architecture of the array

Answer: B,D,E

Explanation: <http://www.certificationexplorer.com/Documents/HP0-J64.pdf>

Question No : 5

What drives the growth of unstructured data?

- A. Increases in cloud-based storage systems
- B. Rapidly lowered disks costs
- C. Rapidly changing strategies and company agility
- D. Digitization of a wide-range of industries

Answer: D

Question No : 6

Which HP 3PAR StoreServ software gives the customer the ability to specify a minimum number of IOPs for a volume set?

- A. HP 3PAR StoreServ Dynamix Optimization
- B. HP 3PAR StoreServ Performance Advisor
- C. HP 3PAR StoreServ Adaptive Optimization
- D. HP 3PAR StoreServ Enhanced Priority Optimization

Answer: C

Explanation:

HP 3PAR Adaptive Optimization and QoS can cooperate, but HP 3PAR Adaptive Optimization data migration may impact latency goal settings. For example, when a workload is partially migrated from Fibre Channel drives into NL ones after the collection and analysis of the I/O access pattern by HP 3PAR Adaptive Optimization, depending on the host access I/O pattern, this may have a negative impact on latency and trigger workloads to be throttled towards their in goal. This is an expected behavior if the QoS rule was modeled after the Fibre Channel performance.

Question No : 7

Your customer is rapidly expanding and wants to migrate from direct-attached storage to

an array-based storage platform. Which benefit can be achieved by moving to the HP 3PAR StoreServ platform?

- A. reduces administration time by up to 75%
- B. reduces SAN equipment costs
- C. reduces power costs by 75%
- D. cuts disk capacity requirements by 50% or more

Answer: D

Explanation:

<http://www.certificationexplorer.com/Documents/HP0-J64.pdf>

Question No : 8

You have Proposed HP 3PAR StoreServ thin provisioning capability to achieve a 40 % reduction in raw storage requirements. The customer considers all storage vendors thin provisioning equal.

What are the competitive differentiators of HP 3PAR StoreServ thin provisioning? (Select two)

- A. fills empty volume space with zeros for space reclaim identification
- B. does not require resource pools
- C. provides equivalent performance to a normally provisioned volume
- D. features dynamic RAID level conversion based on peak write demand statistics to maintain performance
- E. automatically converts fully provisioned volumes to thin volumes

Answer: A,C

Question No : 9

A retail customer recently experienced a major flood in the area of their data center and lost some critical financial data. They are now planning to purchase an HP StoreVirtual multi-site configuration and rent collocation space in another city. As a part of the proposal, which component of the HP StoreVirtual architecture must be implemented to support automatic quorum management across the two sites?

- A. Management Group
- B. Centralized Management Console
- C. Failover Manager
- D. Manager Quorum

Answer: B

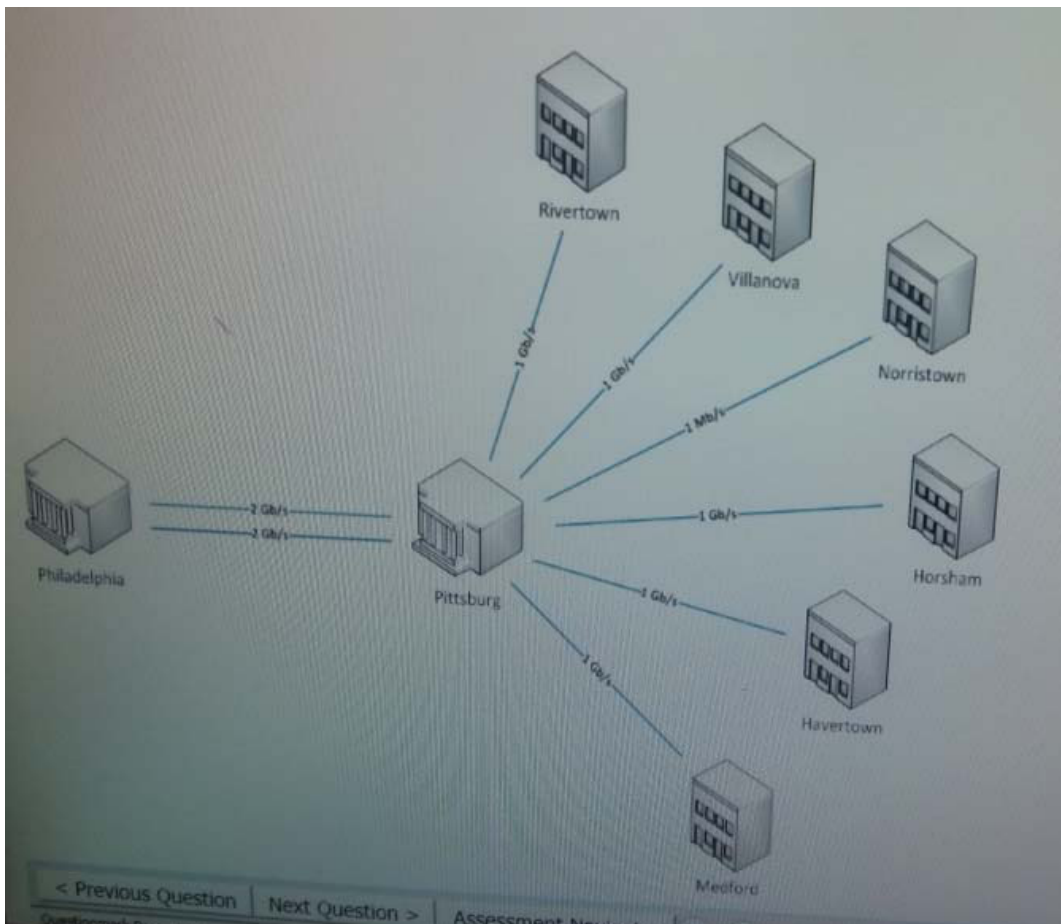
Explanation:

http://h20565.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay/resource.process/?javax.portlet.begCacheTok=com.vignette.cachetoken&javax.portlet.endCacheTok=com.vignette.cachetoken&javax.portlet.rid_ba847bafb2a2d782fcbb0710b053ce01=docDisplayResURL&javax.portlet.rst_ba847bafb2a2d782fcbb0710b053ce01=wsrp-resourceState%3DdocId%253Demr_na-c01727773-2%257CdocLocale%253D&javax.portlet.tpst=ba847bafb2a2d782fcbb0710b053ce01_ws_BI&ac.admitted=1386206291390.876444892.492883150

CMC Centralized Management Console. See HP StorageWorks P4000 Centralized Management Console.

Question No : 10

Refer to the exhibit.



The customer wants to implement an HP StoreVirtual solution for the environment shown. The storage requirements dictate that the solution must have four nodes per site. What needs to be considered when designing the solution?

- A. the latency on the link
- B. a failover manager required on both sites
- C. 200 MB/s bandwidth per storage nodes pair required
- D. the type of data being replicated

Answer: A

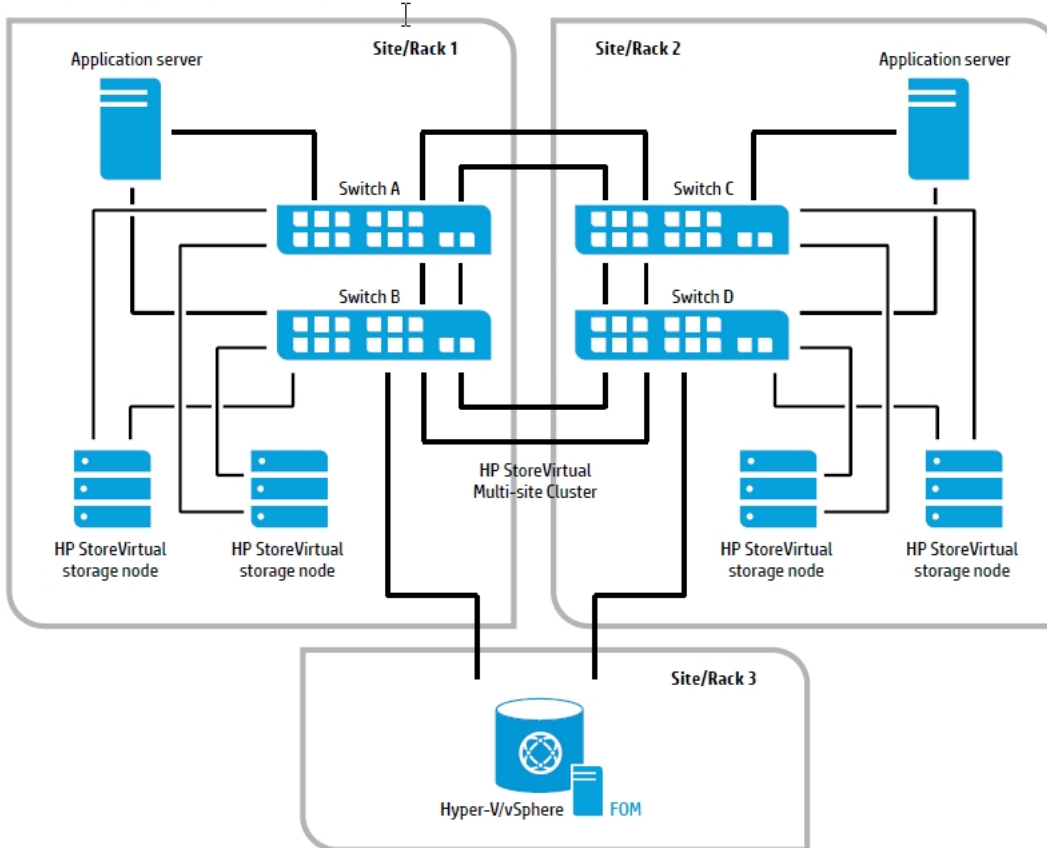
Explanation:

Best practices

- Use a single IP subnet with Layer 2 switching
- Configure redundant network paths between sites to help minimize link failure in a two-site configuration. In multi-site cluster with three sites, HP recommends a triangle network design, not a V-design to ensure high availability.
- For 1GbE installations allocate 50 MB/s per storage node in the sites between data centers; for environments with 10GbE storage connectivity, reserve 250 MB/s. For campus cluster deployments with Fibre Channel connectivity on HP StoreVirtual, plan for 500 MB/s per storage node in the sites (only two sites supported).

- In the example (see Figure 7) above with 1GbE storage connectivity and two storage nodes in each site, designate 50 MB/s x 2 = 100 MB/s of bandwidth between the sites (at least one 1GbE link; two for redundancy).
- HP StoreVirtual Fail-over Manager is not in the data path and has to be connected using at least Fast Ethernet (100 Mb/s) with a latency not exceeding 50 ms.

Figure 7. Typical multi-site cluster environment



Network latency

High network latency can be the primary cause of slow I/O performance, or worse, iSCSI target disconnects. It is important to keep round trip network latency on your storage subnet below two milliseconds. Many factors can contribute to increasing network latency, but two are most common:

- Distance between storage cluster nodes
- Router hops between storage cluster nodes

Configuring a multi-site cluster on a single IP subnet with Layer 2 switching will help to lower the network latency between storage cluster nodes.

Question No : 11

The IT manager of a company wants their NAS storage system that uses deduplication to be more efficient. Which NAS system meets this requirement?

- A. HP StoreOnce with catalyst
- B. HP 3PAR StoreServ with Thin Provisioning
- C. HP MSA 2040 with snapshot technology
- D. HP StoreEasy with Windows Storage Server

Answer: D

Explanation:

HP X3000 G2 Storage boosts the value of your array or SAN by adding Windows Storage Server-powered, IP-based gateway services to it.

Question No : 12**Scenario**

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