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Designing HP Enterprise Storage Solutions

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QUESTION 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.

How should you prepare your presentation to convince the customer that operational expenditures are reduced?

A. Focus on shared storage usage and availability of the proposed solution.

B. Point out reclaimed annual productivity time through client virtualization.

C. Emphasize repurposing the existing HP BladeSystem in the new solution design.

D. Mitigate risk by proposing an HP Converged Infrastructure solution.

Correct Answer: C

QUESTION 2

Which product supports the implementation of a new storage solution using Adaptive Optimization?

A. HP StoreVirtual 4330

B. HP StoreVirtual 4730

C. HP StoreVirtual VSA

D. HP StoreVirtual 4530

Correct Answer: A

QUESTION 3

What is the minimum number of nodes a new storage solution should have to support Network RAID 10 +1?

A. 2

B. 3

C. 4

D. 5

Correct Answer: D

QUESTION 4

A customer in the financial needs full high availability and optimal write performance of an HP StoreVirtual 4000 solution in case of a data center failure.

Which Network RAID level should you recommend?

A. Network RAID 6

B. Network RAID 10

C. Network RAID 10+1

D. Network RAID 10+2

Correct Answer: D

Network RAID-0, Network RAID-5, and Network RAID-6 will not tolerate site failures. Network RAID 5 - Stores three data and one parity as a minimum configuration i.e 3+1 , meaning three nodes as a starting point.

Network RAID 6 - Stores three data and two parity as a minimum configuration i.e 3+2 , meaning five nodes are required initially.

Network RAID 10 - Stores two copies of each volume\\'s block, providing continuous data availability across any single node failure.

Network RAID 10+1 - Stores three copies of each block for mission-critical data that needs to be available despite any double node failure.

Network RAID 10+2 - used in situations where a cluster is divided between two locations, and the data must be continuously available in the event of both a site failure and a node failure at the alternate site (Campus SAN).

Full high availability and optional write performance of and HP StoreVirtual 4000 http://
h20565.www2.hp.com/portal/site/hpsc/template.PAGE/public/kb/docDisplay/?

sp4ts.oid=4118659andspf_p.tpst=kbDocDisplayandspf_p.prp_kbDocDisplay=wsrp- navigationalState%
3DdocId%253Dmmr_kc-0108305-19%257CdocLocale%253Den %257CcalledBy %

253DSearch_Resultandjavax.portlet.begCacheTok=com.vignette.cachetokenandjavax.portlet.end
CacheTok=com.vignette.cachetoken

Network RAID10+1: Data is striped and mirrored across three or more storage systems. Three copies of the Data in a volume configured with Network RAID10+1 are available and preserved in the event that any two storage systems become

unavailable. Best applications for Network RAID10+1 are those that require data availability even if two storage systems in a cluster become unavailable.

Network RAID10+2: Data is striped and mirrored across four or more storage systems. Four copies of the Data in a volume configured with Network RAID10+2 is preserved in the event that any three storage systems become unavailable.

Network RAID10+2 are designed for Multi- Site SANs to preserve data in the event of an entire site becoming unavailable. Best use for Network RAID10+2 volumes is for data that must be synchronously replicated between two locations and

must remain fully redundant in the case of an entire site failure.

QUESTION 5

A customer is upgrading their infrastructure and plans to migrate their SAN traffic to their Ethernet network using FCoE. Which product will allow the customer to use their HP EVA 4400 on their new infrastructure?

A. HP MPX200 Multifunction Router

B. HP E2520 switch series

C. HP SN6000 Fiber Channel Switch

D. HP CN1100E Dual Port Converged Network Adapter

Correct Answer: A

SAN Design Reference Guide pp39 FCoE fabric topologies FCoE technology allows you to converge Ethernet and Fibre Channel technology, providing significant cable, adapter, and switch consolidation. All HP-supported Fibre Channel topologies are supported integrated with FCoE at the Fibre Channel fabric edge. HP also supports end-to- end FCoE solutions for the P63xx/P65xx EVA storage systems with the FCoE target interface and P6000 (formerly EVA) storage using the MPX200 Multifunction Router. For more information about FCoE.