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Designing HP Enterprise Storage Solutions

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QUESTION 1

A food manufacturing company has an existing HP 9200 Virtual Library System (VLS) an HP Data Protector environment. They currently backup approximately 15-20 TB of data daily to the VLS and then off site all data daily an HP ESL tape library. They have a business requirement of all backup data being off- site within 24 hours and a data retention requirement of three months. The experience an average of 15% data growth per year. Due to future SAP project, data growth is expected to increase by 50% in the next 12 months. The customers is looking at their long- term backup strategy and infrastructure to support the data growth and business requirements.

Which solution meets the customer requirements?

- A. two HP StoreOnce 4420 Backups with Low Bandwidth Replication
- B. two HP StoreOnce 4220 Backups with Low Bandwidth Replication
- C. two HP StoreOnce B6200 Backups with Catalyst
- D. two HP StoreOnce 4220 Backups with Catalyst

Correct Answer: C

The HP 9200 Virtual Library System can start as a 10 TB, one-node system and easily scale into a multiarray/multi-node solution with performance and capacity of 4.4 TB/hr/node and up to 2560 TB of useable storage with hardware compression. For fast data protection and backup in complex SAN environments, the VLS9x00 family supports the licensing of Accelerated deduplication and deduplication- enabled replication. http://h18000.www1.hp.com/products/quickspecs/12812_na/12812_na.pdf

The HP ESL G3 Tape Library provides a modular architecture in a standard 19" rack form factor to scale up over 50x from the initial capacity without disrupting ongoing performance and delivery; it is scalable from 100 to over 12,006 slots or from 80TBs to 75 PB in increments of 100 slots.

20 TB daily 30 TB dialy 100 TB week 150 TB week 400 TB mount 600 TB mount 1200 TB 3-mount 1800 TB 3-mount long-term backup strategy

two HP StoreOnce 4220 (12 to 24 TB raw) (Total 48 TB) two HP StoreOnce 4220 Backups with Catalyst (12 to 24 TB raw) (Total 48 TB) two HP StoreOnce 4420 (12 to 48 TB raw) (Total 96 TB) two HP StoreOnce B6200 Backups with Catalyst (48 to 768 TB raw) (Total 1536 TB) <http://h18004.www1.hp.com/products/quickspecs/productbulletin.html#spectype=worldwideandty pe=htmlanddocid=14450>

HP StorOncc 4220 Backup HP StoreOnce 4220 is designed for small to midsized data centers and as a replication target device for up to 24 remote and branch offices. The 2U StoreOnce 4220 delivers a scalable solution from 8 to 18 TB of useable capacity (12 to 24 TB raw) using a simple and cost effective 2U capacity upgrade. Meet backup windows with speeds of up to 2.2 TB/hour* using HP StoreOnce Catalyst for protection of up to 8.8 TBs* of data in a 4-hour window.

HP StoreOnce 4420 Backup HP StoreOnce 4420 delivers a balance of price and performance for midsized to large data centers or regional offices, and an ideal replication target device for up to 50 remote or branch offices. The StoreOnce 4420 delivers a scalable 4U solution from 8 TB to 38 TB of usable capacity (12 to 48 TB raw) and speeds of up to 10.8 TB/hour* with StoreOnce Catalyst for protection of up to 43 TBs* of data in a 4-hour window.

HP StoreOnce B6200 Backup HP StoreOnce B6200 takes HP StoreOnce to the enterprise, providing disk based backup with deduplication for cost effective, longer term on site data retention and off site disaster recovery. The highest performance HP StoreOnce Backup system, these highly scale-out solutions offer from 32 TB to 512 TB of usable capacity (48 to 768 TB raw) and industry-leading aggregate speeds of up to 100 TB/hr* with StoreOnce Catalyst to match enterprise performance requirements and meet ever shrinking backup



QUESTION 2

A regional market leader in direct financial services runs several call centers across the United States and is opening a number of new call centers in the near future. The client uses Windows XP on dedicated workstations. The IT infrastructure consists of numerous HP Proliant HP DL360 G5 and HP Proliant DL380 G6 servers running VMware ESX or Windows 2003, direct- attached storage, and Hp Ultrium tape drivers.

Which HP storage and virtualization solution should be designed to support the customer IT infrastructure roadmap for client virtualization?

- A. HP 3PAR StoreServ 7000 with KVM
- B. HP EVA P6000 with VMs
- C. HP StoreVirtual 4000 with VMware View
- D. HP StoreSure 2000 with XenDesktop

Correct Answer: D

- A. kernel-based virtual machine (KVM)
- B. virtual machine(s) VMs
- C. VMware?Horizon View™ (formerly VMware View) is a virtual desktop infrastructure solution that simplifies desktop management and provides users with what they need, when they need it. D. Citrix XenDesktop is the award winning solution for virtual desktop delivery and apps on demand. XenDesktop delivers virtual apps and desktops on a single unified platform, providing self- service access for users and simplified management for IT. D. HP StoreSure 2000 Modular Smart Array (MSA) solutions 2312fc, 2324, and P2000 and focuses on implementing and managing an MSA SAN solution.

[PDF] [HP MSA P2000 G3 Modular Smart Array Systems - Hewlett Pack ...](#)
h18000.www1.hp.com/products/.../13551_div.pdf Traduzir esta página
04/10/2013 - Hewlett Packard's MSA P2000 Family of storage arrays features P2000
... The P2000 G3 SAS array is designed for directly attaching up to four ...

C. HP StoreVirtual 4000 <http://www8.hp.com/pt/pt/products/disk-storage/product-detail.html?oid=4118659#!tab=features> Question possibility are HP StoreVirtual 4000 with VMware View, but

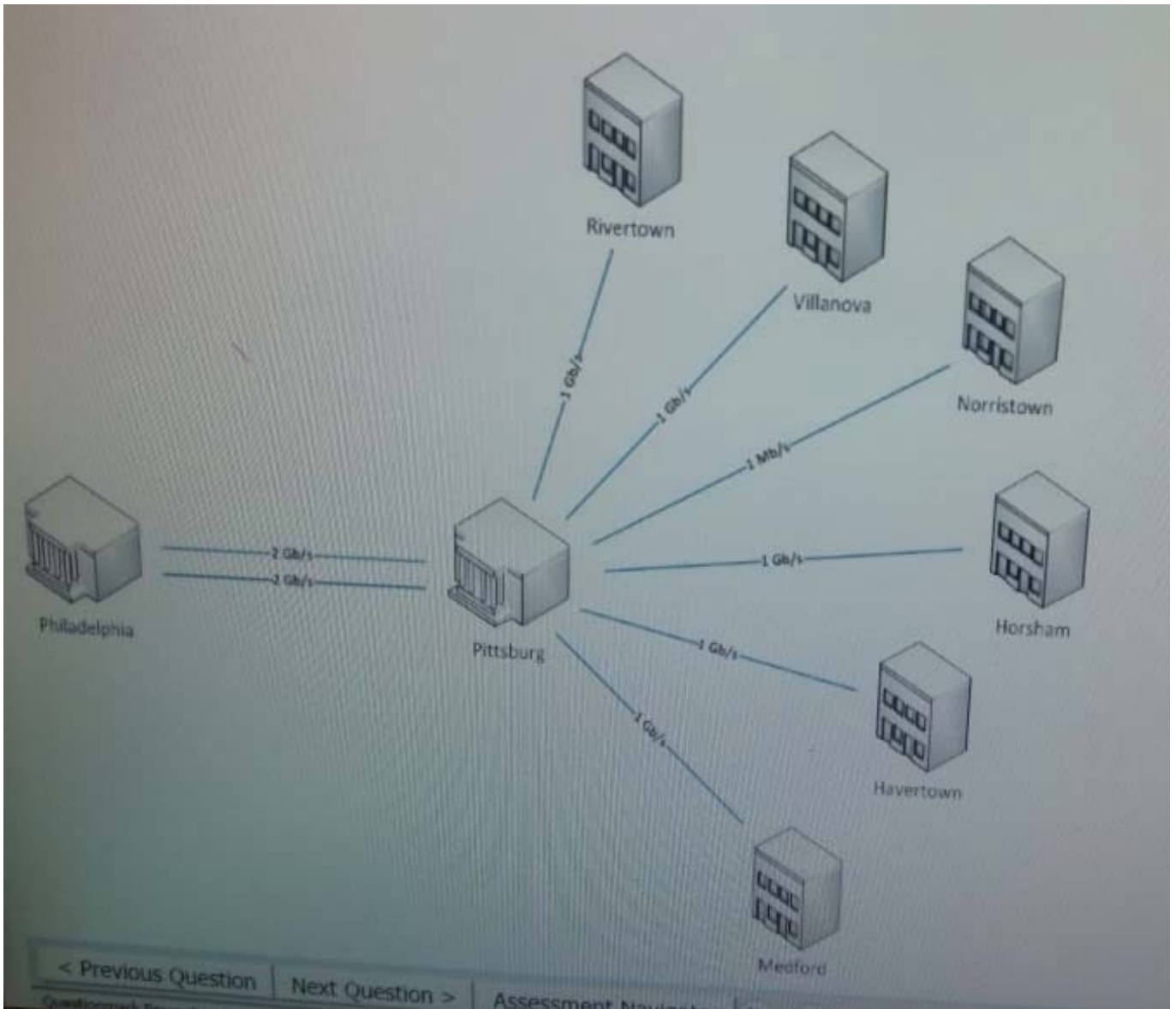
iSCSI/Fibre Channel: Direct attach or direct connect

HP StoreVirtual does not support direct attach configurations for iSCSI or Fibre Channel connectivity.

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA2-5654ENW.pdf>

QUESTION 3

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

Correct Answer: A

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.



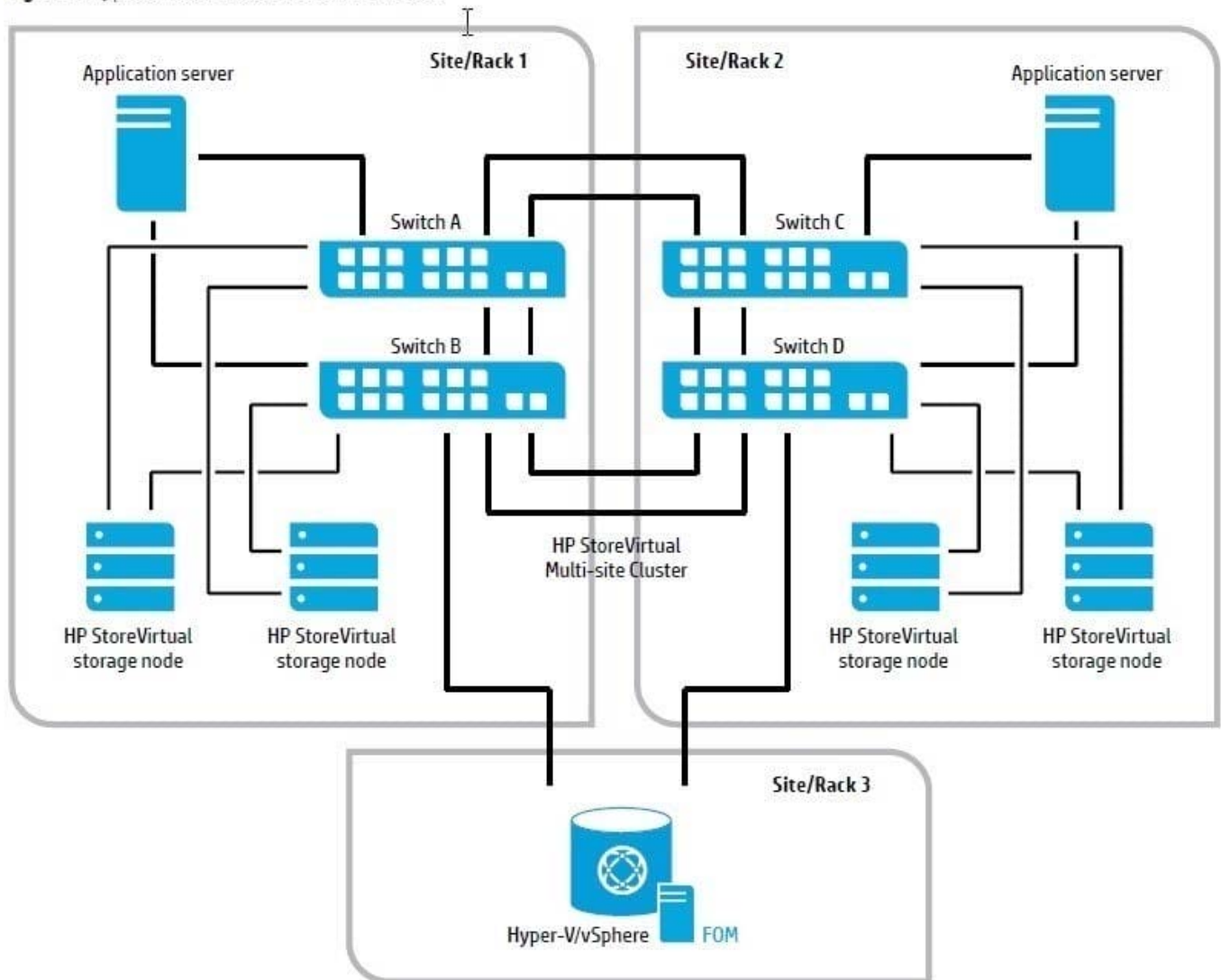
For 1GbE installations allocate 50 MB/s per storage node in the sites between data centers; for

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 4

A Customer plans to centralize and virtualize their user desktops using VMware Horizon for 300 users. Their primary focus for the project is efficient backups. The customer design includes HP ProLiant BL460 Gen8 servers and an HP StoreVirtual solution. The customer needs an environment that uses a single management console for all backups and replication activities and the ability to implement federated deduplication. The design incorporates an HP StoreOnce B6200 Backup solution.

Which HP Enterprise Backup (EBS) supports the customer's needs?

- A. HP StoreOnce Catalyst
- B. HP StoreOnce VTL emulation
- C. Enterprise Tape Library
- D. NAS share

Correct Answer: A

Law enforcement office saves time and money with HP 3PAR StoreServ Storage and HP StoreOnce centralized backup

QUESTION 5

Which tool helps a customer determine if the interoperability of their bill of materials (BOM) is supported by HP?

- A. HP Sizing and Configuration Tool
- B. HP Single Point of Connectivity Knowledge (SPOCK)
- C. HP SAN Designer
- D. HP Storage Product Selector

Correct Answer: B

<http://h71028.www7.hp.com/enterprise/us/en/solutions/storage-tools.html>

HP Sizer for Microsoft Exchange Server 2010 Microsoft Exchange Server 2010 is a complex application that requires intensive knowledge of deployment strategies, interdependencies, server and storage performance related issues. HP has developed the HP Sizer for Microsoft Exchange Server 2010 to assist customers with proper server and storage sizing for their Exchange Server 2010 deployments. The algorithms developed and implemented in this tool are based upon extensive testing of Exchange Server 2010 server roles and technologies, HP's deep experience with Microsoft Exchange, and intricate knowledge of server CPU, memory, and I/O subsystems. This tool is free to download and use, and is designed to simplify configuration across a broad range of deployments. This newest Microsoft Exchange Server Sizer provides support for multiple site deployments, varied client types and access methods, all Exchange Server 2010 server roles, Database Availability Group (DAG) high availability options, choice of tower, rack mounted, or HP BladeSystem server platforms, and either direct attached or SAN-based storage solutions. Based on your input, the tool provides a comprehensive bill of materials along with a deployment overview of the Exchange Server 2010 server roles and storage configurations. Once this Sizer is installed, updates can be downloaded automatically to the underlying



software engines that are necessary to provide support for HP server and storage product information details.

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