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Designing HP Enterprise Storage Solutions

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**QUESTION 1**

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 ViewTM (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 2

A backup design workshop at a customer site identified these business requirements for a solution design:



Backing up a 2 TB file server data

Preferring CIFS targets

Needing six shares to get optimal performance

Integrating with a virtualized environment

Ensuring a one week retention time

Adhering to a minimal budget

Which HP StoreOnce solution should be recommended to the customer?

A. HP StoreOnce 4700

B. HP StoreOnce 4500

C. HP StoreOnce 2700

D. HP StoreOnce VSA

Correct Answer: A

QUESTION 3

How can server performance degradation be avoided during backup in a large virtualized environment with HP Data Protector?

A. Utilize VMware ESX Server Snapshots

B. Use HP StoreOnce D2DBS generic library emulation

C. Configure target side deduplication

D. Implement zero downtime Backup

Correct Answer: D

QUESTION 4

A Customer plans to centralize and virtualize their user desktop using VMware View Solution for 300 users.

Their primary focus for this project is efficient backups. The customer design includes HP Proliant BL460c Gen8 servers and an HP StoreVirtual solution. The customer needs an environment that uses a single management console for all

backup and replication activities and the ability to implement federated deduplication.

In you design, you want to add an HP StoreOnce B6200 Backup solution. Which HP StoreOnce emulation support the customer need?



- A. VTL
- B. StoreOnce Catalyst
- C. Enterprise Tape Library
- D. NAS Share

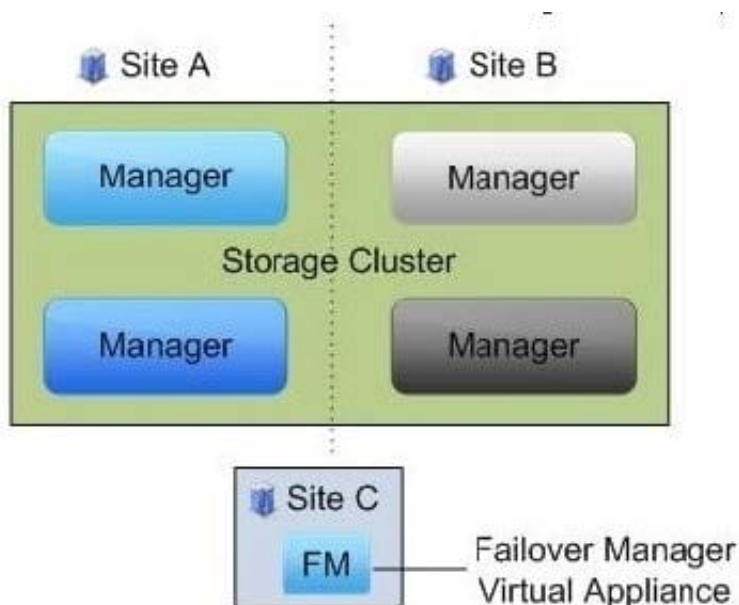
Correct Answer: B

<http://frankdenneman.nl/2009/10/11/lefthand-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 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.



"single management console for all backup and replication and the ability to implement federated deduplication", requires StoreOnce Catalyst. <http://bizsupport2.austin.hp.com/bc/docs/support/SupportManual/c01727773/c01727773.pdf>

QUESTION 5

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.

I HP H-series Switch Cross Reference Guide

Features	Single Power Supply					
	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	BK790A/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)	NPIV (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

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