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QUESTION 1

What is the best way to describe the difference between established storage platforms and HP Converged Storage?

- A. HP Converged Storage is designed to support unstructured data
- B. HP Converged Storage is faster than established storage architectures
- C. HP Converged Storage is designed to meet the challenges of unpredictable demands
- D. HP Converged Storage is designed to use industry standard servers

Correct Answer: B

QUESTION 2

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.



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	3/10/20Gb	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 Licnnc, Additional Cost	Requires Per-Switch Licnnc, 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)	NPV (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

¹SCM = SAN Connection Manager; ²EFMS = Enterprise Fabric Management Suite

QUESTION 3

Which feature in HP StoreVirtual LeftHand OS is ideal in VMware based VDI environment it stores all the virtual machines on a single volume once, without replicating data?

- A. Thin Provisioning snapshots
- B. Adaptive Optimization
- C. SmartClone volume
- D. Network RAID

Correct Answer: D

Network RAID is a per volume setting which can be adjusted to meet data protection and replication requirements on the fly.

There are a variety of Network RAID levels to choose from, but for most production environments it is recommended to use Network RAID 10, which stores two copies of the data on the cluster. With this setting, the volumes remain online if

you lose any single node in the cluster. From a capacity standpoint, you would need to take your capacity estimate based on your assessment of applications and workloads above and multiply it by the numbers of copies you want. For

Network RAID 10, this is a factor of 2, as you store two copies of the data on this volume. More information on the other Network RAID levels and their respective use cases can be found in the HP StoreVirtual User Guide.



QUESTION 4

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://h18004.www1.hp.com/products/quickspecs/14104_div/14104_div.pdf

QUESTION 5

Which backup platforms are supported with HP StoreOnce Catalyst via an OpenStorage Technology (OST) integration?

A. CommVault Galaxy



B. CA ARCserv

C. Symantec Backup Exec 2013

D. IBM TSM

Correct Answer: C

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03478346-1.pdf <http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-4500ENW.pdf>

Backup Exec OST OST is a Symantec backup interface that allows intelligent storage devices, like the HP StoreOnce Backup system, to work with Symantec's Backup Exec software. OST provides Backup Exec administrators with advanced capabilities, such as optimized duplication and DR copy creation.

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