

HP0-J64^{Q&As}

Designing HP Enterprise Storage Solutions

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QUESTION 1

Which storage trend is directly connected to the concept of return on information?

- A. Big Data
- B. Cloud-based storage
- C. Flash-based storage
- D. Thin Provisioning

Correct Answer: D

VP/CIO, Regional US Healthcare Provider 3PAR's thin provisioning alone has saved me around 50% of planned capacity, allowing me to reclaim space and defer expenditure.

QUESTION 2

A company hosts several Microsoft SQL server instances and virtual machines for their internal sales departments on HP EVA6400 storage systems running View 10.0 and XCS 9.53400. The acts globally and runs a 24x7 business with limited IT staff. The customer requires a solution design focused on a short ROI and an optimal total cost of ownership (TCO) for 5 years. The new storage solution should support the customer's flexible business demands.

What has to be considered when planning the data online migration from the EVA systems within the first 5 months after implementing an HP 3PAR StoreServ system?

- A. Exclusive data access for the HP 3PAR system is required during the migration period
- B. Command View has to be upgraded
- C. HP Service has to be involved
- D. Peer Motion has to purchased

Correct Answer: D

HP 3PAR Peer Motion Software enables Storage Federation and is the first non-disruptive, do-it-yourself data migration and load balancing tool for enterprise storage. With Peer Motion, HP 3PAR StoreServ customers can load balance I/O workloads across systems at will, perform technology refresh seamlessly, cost-optimize asset lifecycle management, and lower technology refresh capital expenditure

QUESTION 3

HP 3PAR Remote Copy is supported in synchronous and asynchronous periodic modes. Which protocol is supported only by asynchronous periodic replication?

- A. FCIP
- B. iSCSI

C. FCoE

D. FC

Correct Answer: A

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA3-3053ENW.pdf> Multi-protocol support With Native IP as well as Fibre Channel (FC) support, HP 3PAR Remote Copy Software delivers out-of-the-box connectivity over your IP network, enabling you to replicate data more cost-effectively by leveraging your existing infrastructure. Achieve robust DR without the expensive converters and management of a separate, special-purpose infrastructure.

Connectivity choices HP 3PAR Remote Copy offers two native methods of connectivity in order to satisfy the varying business or technical needs of users: traditional Fibre Channel and TCP/IP over Gigabit Ethernet. With suitable switches, Fibre Channel over IP(FCIP) is also supported, allowing asynchronous periodic Remote Copy over longer distances without introducing GigabitEthernet into the SAN.

[http://webcache.googleusercontent.com/search?](http://webcache.googleusercontent.com/search?q=cache:TVcyLxsMW8AJ:h20195.www2.hp.com/V2/GetPDF.aspx%252F4AA3-8318ENW.pdf+andcd=1andhl=pt-PTandct=clnkandgl=pt)

[q=cache:TVcyLxsMW8AJ:h20195.www2.hp.com/V2/GetPDF.aspx%252F4AA3-8318ENW.pdf+andcd=1andhl=pt-PTandct=clnkandgl=pt](http://webcache.googleusercontent.com/search?q=cache:TVcyLxsMW8AJ:h20195.www2.hp.com/V2/GetPDF.aspx%252F4AA3-8318ENW.pdf+andcd=1andhl=pt-PTandct=clnkandgl=pt)

QUESTION 4

You are working with a city government on a storage refresh. They are interested in consolidating divisions that have previously had separate arrays and management. The political environment will now allow for combined budgets, but managing the storage still needs to be kept separate for varied security reasons. Budgets are very constrained, so cost will be an issue. Which storage array should you recommend to meet their needs?

A. HP StoreVirtual 4330 FC Storage

B. HP StoreVirtual 4130 Storage

C. HP 3PAR StoreServ 7200 Storage

D. HP 3PAR StoreServ 10400 Storage

Correct Answer: C

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

QUESTION 5

Which HP storage array features HP Express Query?

A. HP 3PAR StoreServ

B. HP StoreAll

C. HP StoreEver

D. HP StoreVirtual

Correct Answer: B

Reference: <http://www8.hp.com/us/en/products/data-storage/storeall.html> (what's new)

QUESTION 6

Your city government customer has been using HP Eva 6400s for the last three years. While the arrays have performed fairly well and the city particularly likes the ease of management, they have found several situations where the arrays were lacking in functionality. To support multiple organizations within the city government, they have had to utilize multiple arrays to ensure separation of management and data access. The city also had some issues handling their utility billing and VMware environments in a single array and added a separate array to ensure adequate performance.

Which HP Storage solution should you recommend to meet the requirements of city?

- A. HP StoreVrtual
- B. HP StoreAll
- C. HP P9500
- D. HP 3PAR StoreServ

Correct Answer: D

StoreServ and HP 3PAR can start small and grow affordably and non-disruptively with multi-tenant and federated, efficient reduce acquisition and operational costs by 50% and autonomically save up to 90% of administrator time. Help for novice storage users in a Windows, VMware or Linux environments for self-installation.

QUESTION 7

You are designing a new storage environment for an enterprise customer who deals with application delivery. Which questions should you ask the CEO during the consulting interview to get all of the information to design and position the solution? (Select two.)

- A. What are your business opportunities?
- B. Which cost and risk control mechanisms are in place?
- C. Which service-level improvements do you need?
- D. What is your application development backlog?
- E. What is your competitive business advantage?

Correct Answer: AE

CEO - Competitive business advantage; business opportunities CFO - Cost and risk control CIO - IT operating costs; application development backlog Clients - User; service-level consistency or improvement

QUESTION 8

Which rule applies when designing a routed HP StoreVirtual 4000 Remote Copy environment to replicate data from a branch office to the main data center?

- A. The two IP subnets must have IP routes to each target network with forwarding.
- B. The two IP subnets must have IP routes to each target network with direct access mode configured.
- C. The two IP subnets must have IP routes to each target network without network address translation.
- D. The two IP subnets must have IP routes to each target network without a private VPN tunnel used.

Correct Answer: C

IP networking requirements You can use HP P4000 remote copy from one cluster to another cluster on a single IP subnet as well as across routed environments. In a routed environment, the two IP subnets must have IP routes to each target network without network address translation (NAT) or port forwarding. You can employ private WAN connections using point-to-point protocols, or you can set up a VPN tunnel between two networks that are separated by the public Internet. The VPN tunnel effectively acts as one hop on a router and will allow the use of private IP space on each end. <http://h17007.www1.hp.com/docs/justrightit/HP%20StoreVirtual%20P4000%20Networking%20Recommendations.pdf>

QUESTION 9

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 10

What does the 4-port Converged SAN Controller provide in the HP MSA 2040?

- A. IP ports for Asynchronous and Synchronous replication
- B. SFP modules support for FC and iSCSI
- C. Support for FCoE direct connect
- D. 6GB SAS and 16GB FC Combo support

Correct Answer: B

The HP MSA 2040 can also replicate data between arrays (P2000 G3 and/or MSA 2040 SAN Model only using FC or iSCSI protocol) with the optional Remote Snap feature.

QUESTION 11

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.

Your proposed design includes a VMware View environment using HP storeVirtual 4800. What has to be considered when designing a solution?

- A. Offer asynchronous replication to keep the virtual desktops up and running in case of a component failure.
- B. Use VMware View provisioning servers outside the blade to minimize LAN traffic to the enclosure.
- C. Avoid boot storms and insufficient response times during critical shift change hours.
- D. Include HP virtual Connect FlexFabric to connect to the HP StoreVirtual environment.

Correct Answer: C

HP P4800 G2 31.5TB SAS SAN BladeSystem Capacity 31.5TB Starting, 504TB Maximum Drive description (70) LFF SAS Host interface 10 GbE iSCSI (4) Ports Replication support SAN/iQ Remote Copy Asynchronous Replication with Bandwidth Throttling; Multi-Site/ Disaster Recovery Thin provisioning support SAN/iQ Thin Provisioning

www.hp.com/go/P4000Compatibility www.hp.com/go/P4000Compatibility Hyperlink VMware?Horizon ViewTM (formerly VMware View) is a virtual desktop infrastructure solution that simplifies desktop

The customer is already an HP Blade System customer using HP Virtual Connect Flex-10 (Not It makes no sense answer D), HP Virtual Connect Flex-10 10Gb Ethernet Modules for c- Class BladeSystem simplify networks by reducing cables without adding switches to manage; They provide 4:1 consolidation of interconnect equipment: Each VC Flex-10 module can replace up to four Ethernet switches supporting data and iSCSI storage traffic. A "boot storm" is the tremendous performance drain experienced when hundreds or thousands of users logon at, or near, the same time in VDI environments. The drag on network throughput, host performance and SAN I/O can be devastating to an unprepared VDI installation. Some of the pressure can be eased by building the environment according to some best practices laid out by virtualization vendors. But, there are a few areas that you might not have considered when constructing your VDI infrastructure. <http://www.zdnet.com/blog/virtualization/boot-storms-and-how-to-avoid-them/4767>

QUESTION 12

A regional market leader in direct financial services run 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 DL 360 G5 and HP ProLiant DL380 G6 servers running VMware ESX or SUSE Linux for the database server, direct attached storage, and HP Ultimatum tape drives. They want to consolidate the infrastructure. Which drawback of his environment can be eliminated when designing an HP StoreVirtual 4000 Storage solution?

- A. Unexpected downtime caused by a site failure
- B. Performance bottlenecks caused by mixed workloads
- C. Inconsistent Oracle data caused by array snapshots
- D. Capacity bottlenecks caused by duplicated data blocks

Correct Answer: B

SmartClone technology is based on the space-efficient LeftHand Thin Provisioning architecture, and the volume clones can be used without limitation along with all other LeftHand OS features like Network RAID, Thin Provisioning, Snapshot, and Remote Copy. The feature works by taking any volume or snapshot and making one or many clones in an instant. The cloning function makes a permanent, read/write volume on the array, pointing back to the original volume's blocks instead of duplicating the blocks. By managing each clone as a pervasive volume, SmartClone eliminates any requirement for a volume, snapshot, or any of its predecessors to exist after the clone has been created, and also eliminates the need to run de-duplication software, because there are no duplicate blocks. The clone shares the original volume's blocks and uses copy-on-write semantics. SmartClone technology reduces storage costs and increases overall storage efficiency.

Administrators can store "gold-master" system images on the array for virtual desktop and boot-from-SAN implementations, and quickly provision test environments using real production data. To simplify management, administrators can view all of the relationships between clones, volumes, and snapshots graphically in the Control Management Console. http://h18006.www1.hp.com/products/quickspecs/13254_div/13254_div.pdf

QuickSpecs

HP LeftHand P4000 SAN Solutions

Family Information

All of the following benchmarks were designed to help characterize the actual performance users can expect in similar production environments. Each benchmark measures different storage characteristics. The Cache Only benchmarks illustrate the maximum **performance** limits of the SAN in an optimal scenario. While these numbers are often used as a basis of comparison between different storage vendors, they aren't representative of the workload typically found in production environments. The following benchmarks are real-world benchmarks designed to mimic actual application workloads. 8K OLTP and 4k Email benchmarks illustrate the expected performance in those application environments. Sequential Reads and Writes show throughput in megabytes per second (MB/sec), an indicator of performance for applications such as file share or streaming media.

HP LeftHand P4000 SANs Performance:

RAID 5 Performance Results (rounded down)				
	SATA Starter SAN	SAS Starter SAN	Virtualization SAN	Multi-Site SAN
Cache only IOPs	120,000	120,000	120,000	240,000
Cache only MB/s	448	448	448	896
Sequential Reads MBs	70	210	306	410
Sequential Writes MBs	40	125	183	220
8K OLTP	844	1,759	2,764	5,025
4k Email IOPS	800	2,200	3,400	7,000

RAID 10 Performance Results (rounded down)				
	SATA Starter SAN	SAS Starter SAN	Virtualization SAN	Multi-Site SAN
Cache only IOPs	120,000	120,000	120,000	240,000
Cache only MB/s	448	448	448	896
Sequential Reads MBs	70	210	306	410
Sequential Writes MBs	40	125	183	220
8K OLTP	965	2,010	3,015	6,030
4k Email IOPS	1,200	3,100	5,100	10,500

QUESTION 13

Which HP 3PAR InForm Operating System feature provides the ability to analyze how volumes on the array are using physical disk space and makes intelligent adjustments to maintain optimal volume distribution when new hardware is added to the system?

- A. HP 3PAR Peer Motion
- B. HP 3PAR Autonomic Rebalance
- C. HP 3PAR Adaptive Optimization
- D. HP 3PAR System Reporter

Correct Answer: B

http://www.hp.com/hpinfo/newsroom/press_kits/2012/HPDiscoverFrankfurt2012/3PAR7000_Op_System_DS.pdf

HP 3PAR Autonomic Rebalance

HP 3PAR Autonomic Rebalance optimizes the use of future capacity expansions without requiring administrator intervention. It analyzes how volumes on the HP 3PAR Storage System are using physical disk space and makes

intelligent,

autonomic adjustments to ensure optimal volume distribution when new hardware is added to the system.

(Thank You - Antonio)

HP 3PAR Adaptive Optimization Software is a granular, policy-driven, autonomic storage tiering software solution. It delivers service level optimization for enterprises and cloud data centers and helps reduce cost, while increasing agility and

minimizing risk.

HP 3PAR System Reporter Do you need to gather and track historical system information for your HP 3PAR Storage Systems? HP 3PAR System Reporter Software is a flexible, intuitive, web-based performance and capacity management

tool that aggregates fine-grained performance and capacity usage data for HP 3PAR Storage Systems, regardless of location. The highly customizable, robust reporting offers straightforward report sharing and report scheduling which

simplifies performance monitoring and assists in gathering data for optimization and planning. System Reporter enables quick troubleshooting and isolation of performance issues minimizing business impact. System Reporter proves

particularly useful for service providers and enterprises about detailed information for service level administration. The ability to create reports by user group supports charge back and meeting service level agreements. Works with HP 3PAR

Adaptive Optimization Software to enable policy management of autonomic storage tiering resources.

QUESTION 14

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

Single Power Supply						
Features	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 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)	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

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

QUESTION 15

A customer storage infrastructure consists of eight HP StoreVirtual 4000 nodes in a cluster, connected to an HP 2910-24G network environment. Server virtualization is done using VMware vSphere 5.1 on six hosts across two sites. Which drawbacks must the customer consider when upgrading the solution? (Select two.)

- A. When adding more nodes in the cluster, additional 1Gb network ports have to be added in each node.
- B. When using more than eight nodes in a cluster, a 10 Gb connection is recommended.
- C. When upgrading to VMware version 5.1, the iSCSI multipathing driver has to be configured.
- D. When using a server across the sites, VMware Site Recovery Manager is needed.
- E. When using 10 Gb the customer has to implement new network switches.

Correct Answer: BE

Recommended network switches for HP StoreVirtual 4000 Storage HP Networking has an extensive portfolio of Ethernet switches that are ideally suited for iSCSI deployments. These switches are designed to deliver high-

performance, low-latency, and wire-speed Layer 2 to 4 network services. HP Networking top of rack series of switches offer unmatched combination of 1GbE and 10GbE ports density, high availability architecture, Intelligent Resilient Framework (IRF) technology as well as a full range of Layer 2 and or Layer 3 features depending on switch selection. These switches are built to support open and industry-standards networking protocol. These switches can be deployed within the network core or as a highperformance switch in the convergence layer or network edge of SMB and enterprise networks. Listed below is a selection of recommended top of rack models. These are the 3800, 5830, 5920, and 6600 series.

Another recommended switching platform is the HP Networking 2920 series, to learn more visit hp.com/go/networking.
<http://h17007.www1.hp.com/docs/products/4aa4-5213enw.pdf>

Networking 2910 <http://www8.hp.com/pt/pt/products/networking-switches/product-detail.html?oid=3901673#!tab=specs>

Recommended switch infrastructure for an HP P4000 SAN HP does not recommend any particular switch for use with HP P4000 SANs. However, there is a set of minimum switch capabilities that make building a high-performance, high-availability storage network a relatively easy and cost effective task. The following are three commonly recommended HP switches, but ultimately you will need to follow the recommended switch capabilities in Table 1 below which provides guidance for general switch selection based on your specific needs. As a rule of thumb, any enterprise-class managed switch typically has the capabilities required for most customer installations.

HP E2910 al Switch Series (10/100/1000Base-T and 4 x optional 10GbE)

HP A5810-48G Switch (10/100/1000Base-T and 2 x 10GbE)

HP E6600 Switch Series (10/100/1000Base-T and 10-GbE SFP+)

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