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Designing HP Enterprise Storage Solutions

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QUESTION 1

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 2

Which HP 3PAR StoreServ functionality or component should be highlighted during a proposal presentation to support the customer goal to run a 24x7 business?

A. HP 3PAR StoreServ Persistent Ports

B. HP 3PAR 2-port 10 Gb/S iSCSI/FCoE SAN

C. HP 3PAR StoreServ Data At Rest Encryption

D. HP 3PAR Virtual Service Processor

Correct Answer: A

QUESTION 3

Your customer has an existing HP StoreVirtual P4500 G2 multi-site SAN, which has become I/O constrained. They want to implement a new higher performance tier into the existing management group. Which Peer Motion method provides the ability to dynamically rebalance data volumes to the higher performance tier?

A. Dynamic LUN management

B. Cluster swap

C. Remote Copy

D. Volume migration

Correct Answer: D

http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-2922ENW.pdf

Peer Motion on HP StoreVirtual Storage: Volume migration Peer Motion on HP StoreVirtual Storage allows a system administrator to move an HP StoreVirtual volume from one cluster to another, online, without having to reconfigure the host or applications. This is done by simply editing the properties of a volume, selecting the Advanced tab, and choosing a new cluster from the cluster drop-down box. The blocks that make up the volume on the original cluster will begin to

migrate to the new cluster, and the LeftHand OS will automatically redirect and proxy requests for blocks to the proper cluster as the data migration is underway. When the migration is complete the iSCSI sessions to the new cluster from the host are automatically restored (assuming the new cluster\\'s virtual IP address has been added to the iSCSI configuration of the host server). A typical use case for Peer Motion could be a volume that contains data for an application that has increasing performance needs. If The volume started out on an MDL SAS cluster, a storage administrator could use Peer Motion to move the volume to a SAS-based cluster. If the volume is on a SAS cluster, the storage administrator could choose to add more nodes to the cluster to provide more performance for the volume, or they could choose to move the volume to an even higher performing tier, such as an SSD-based cluster.

Peer Motion on HP StoreVirtual Storage: Cluster swap The virtualization of storage within an HP StoreVirtual cluster means that the rules about data being tied to physical hardware resources no longer applies. This virtualization allows volumes to be moved dynamically between different physical hardware clusters, and also allows for a feature called cluster swap--the ability to remove existing storage nodes from a cluster and replace them with new storage nodes, online,

with no loss of data or data availability.

In one operation, data from the old storage nodes is moved to the new storage nodes, and all IO is properly directed to the correct node. Upgrading to newer, faster, or larger storage nodes does not require any downtime, providing a clear, well-defined strategy for future expansion and growth. As an example, a customer might start out with a cluster of 8 drive systems. As the customer adds more applications and workload to the cluster, they could reach the Performance or capacity limit of the nodes. They could easily migrate to nodes with 12 or more drives to increase capacity and performance, without having to bring any applications offline.

QUESTION 4

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 5

What was introduced to reduce TCO of an HP 3PAR StoreServ storage solution?

A. Target-only licensing of replication software

B. Caps on per-drive licenses

C. Hardware bundles

D. Capacity on demand

Correct Answer: D

QUESTION 6

What should be added to an HP 3PAR StoreServ design recommendation to support customer business goals of clustering the RIO and reducing the TCO?

A. HP Virtual Connect Flex fabric Modular

B. Hp 3PAR Thin Suites

C. HP 8/24 SAN switches

D. HP ProLiant Server technologies

Correct Answer: B

Cut storage TCO by 50 percent with:

Thin Provisioning

Thin Conversion

Thin Persistence

Adaptive Optimization

Fast RAID Technologies

QUESTION 7

The Converged Infrastructure Architect of small aviation firm issued an RFP to three vendors for a new Greenfield virtualization infrastructure. The RFP has the following design criteria:

-8 blades x86 virtualization servers, 2x6 core West mere Processors, 128 GB of RAM

-vCenter Server or a physical host, 1x6 core, 16Gb of RAM, MS Windows 2008R2 license

-licenses for vSphere, five for each server

-scale-out-style, iSCSI-based storage, approximately 100 TB usable

-CIFS access required for a third-party application that is on four physical hosts

-7x24 /4-hour response support - capacity to support host and storage 10 Gb Ethernet connectivity.

Which products satisfy the design requirements?

A. HP StoreSure 2000FC array + HP StoreEasy 3830 Gateway Storage

B. HP StoreVirtual VSA Software + HP StoreEasy 3830 Gateway Storage

C. HP StoreVirtual 4330 array+ HP StoreEasy 3830 Gateway Storage

D. HP StoreSure 2000FC array+ HP StoreAll 9300 Gateway Storage

Correct Answer: A

Request for proposal (RFP)

Capacity to support host and storage 10 Gb Ethernet connectivity:

HP StoreVirtual VSA Software + HP StoreEasy 3830 Gateway Storage HP StoreVirtual 4330 array 1 GbE iSCSI (4) Ports Optional upgrade to 10GbE iSCSI (2) Ports HP StoreSure 2000FC array: Fibre Channel, Combo FC/iSCSI, 6Gb SAS,

and 1Gb or 10GbE iSCSI systems

HP StoreAll 9300 Gateway Storage, 4 1GbE ports and choice between 2 10GbE or 2 IB ports for customer data network.

iSCSI-based storage, approximately 100 TB usable:

HP StoreVirtual 4330 array: Capacity 2.4TB Starting and 1152TB Maximum, Drive description (720) SFF SAS or (256) SFF MDL SAS or (1152) LFF MDL SAS.

HP StoreVirtual VSA Software: HP StoreVirtual VSA now featuring adaptive optimization with sub-volume tiering automation to optimize performance and cost for dynamic workloads plus flexible product offerings ranging from 4-to-50 TB capacity

StoreAll 9300 Gateway Storage: (Not support StoreSure 2000FC) Storage expansion options: Attach to HP 3PAR StoreServ, EVA or XP arrays

Storage Capacity : 7.2TB raw capacity (5.7TB after RAID) with 24 300GB Enterprise SAS 10K SFF drives, 21.6TB raw capacity (17.1TB after RAID) with 24 900GB Enterprise SAS 10K SFF drives, 48TB raw capacity (32TB after RAID) with

24 2TB Midline SAS 7.2K LFF drives, 72TB raw capacity (48TB after RAID) with 24 3TB Midline SAS 7.2K LFF drives and Expansion Capacity Block storage capacity of 7.5TB raw capacity (6TB after RAID) with 25 300GB Enterprise SAS

10K SFF drives, 22.5TB raw capacity (18TB after RAID) with 25 900GB Enterprise SAS 10K SFF drives, 48TB raw capacity (32TB after RAID) with 24 2TB Midline SAS 7.2K LFF drives ,72TB raw capacity (48TB after RAID) with 24 3TB

Midline SAS 7.2K LFF drives

HP StoreEasy 3830 Gateway Storage:

Storage expansion options: Attach to 3PAR StorServ, EVA P6000, P9000 or P2000 arrays. Compatible operating systems: Microsoft Windows (CIFS), Linux, UNIX, VMware. HP StoreSure 2000FC array:

Modular Smart Array (MSA) solutions 2312fc, 2324, and P2000 and focuses on implementing and managing an MSA SAN solution. iSCSI-based storage, Capacidade 384TB Maximum Including expansion, depending on model

QUESTION 8

A pharmaceutical company is planning to replace their existing SAN environment with new HP 3PAR StoreServ array. They run a multi-vendor data center and need to support applications running under multiple operating systems. They must support AIX, VmWare and Microsoft Windows.

10800FC-duo (exhibit):

	AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	NetWare	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualization	SGI-IRIX	Solaris	SUSE	SLES Virtualization	Tru64 Unix	Ubuntu	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP Pro	Windows 2000	Windows NT 4.0
10000 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10800 10Gb FCoE													✓									✓						
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
10400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10400 10Gb FCoE													✓									✓						
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7450 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7450 10Gb FCoE													✓									✓						
7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7400 10Gb FCoE													✓									✓						
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7200 10Gb FCoE													✓									✓						
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

A pharmaceutical company is planning to replace their existing SAN environment with a new HP 3PAR S to and need to support applications running under multiple operating systems. They must support AIX, VMware versions of Microsoft Windows - Explore HP 3PAR StoreServ Storage HP 3PAR StoreServ Storage interoperability: HP 3PAR StoreServ 10000 Storage was previously known as HP P10000 3PAR Storage System
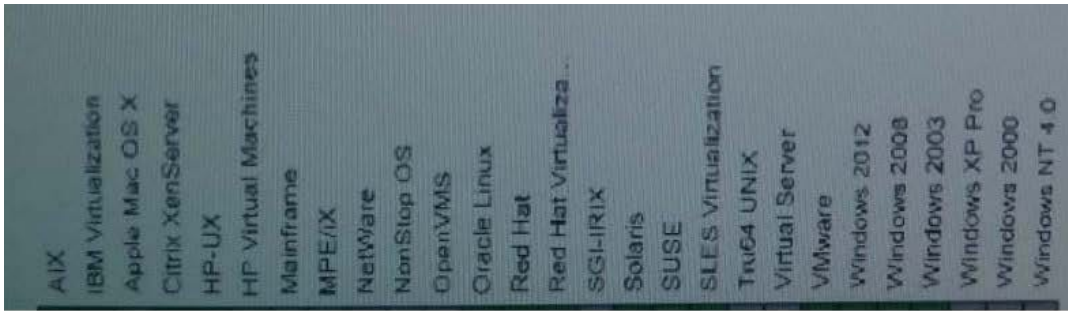
Storage array models 10400 and 10800 were previously Known as P10000(V400) and P10000(V800)

respectively HP 3PAR OS 3.1.1 was previously known as InForm OS 3.1.1

For Recovery Manager products (RMV, RME, RMS, RMO) and other host-based product supported configurations,

please refer to the 3PAR Array Software page.

Referring to the exhibit, which HP 3PAR StoreServ array would meet their needs?

A. HP StoreServ 7400 FC

B. HP StoreServ 10800 iSCSI

C. HP StoreServ T400 iSCSI

D. HP StoreServ 108000 FC

Correct Answer: A

	AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	NetWare	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualization	SGI-IRIX	Solaris	SUSE	SLES Virtualization	Tru64 Unix	Ubuntu	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP Pro	Windows 2000	Windows NT 4.0
10000 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10800 10Gb FCoE													✓									✓						
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
10400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10400 10Gb FCoE													✓									✓						
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7450 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7450 10Gb FCoE													✓									✓						
7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7400 10Gb FCoE													✓									✓						
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7200 10Gb FCoE													✓									✓						
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

QUESTION 9

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 10

A customer is concerned about backup data growth and maintaining or improvising restore service levels. The current environment consists of an HP StoreVirtual P4500 SAN solution, HP Data Protector, and an HP MSL4048 Tape Library with LTO-3 drives connected via SAS to the backup server.

You have been asked to design an upgrade to the current environment that will provide increased backup storage and improve backup retention and restore times. What should be proposed?

A. Configure client-side deduplication in the backup software.

B. Implement HP StoreEasy with block-level deduplication.

C. Upgrade the MSL Tape Library to LTO-5 tape drives.

D. Implement an HP StoreOnce Backup System.

Correct Answer: C

The HP StoreEver MSL Tape Libraries meet demanding storage requirement of businesses needing unattended backup, disaster recovery, or archive capability. The MSL Libraries offer a broad choice of storage capacity and interfaces with LTO-6, LTO-5, LTO-4, or LTO-3 Ultrium tape drives.

Attribute	Generation				
	LTO-1	LTO-2	LTO-3	LTO-4	LTO-5
Release date	2000	2003	2005	2007	2010
Native data capacity	100 GB	200 GB	400 GB	800 GB	1.5 TB[7]
Max uncompressed speed (MB/s)[9][Note 1]	20	40	80	120	140
Compression capable?	ALDC "2:1"				
WORM capable?	No		Yes		
Encryption capable?	No			Yes	
Partition capable?	No (1 allowed)			Yes (2 allowed)	
Tape thickness	8.9 µm		8 µm	6.6 µm	6.4 µm
Tape length	609 m		680 m	820 m	846
Tape tracks	384	512	704	896	1280
Write elements	8			16[7][13]	
Wraps per band	12	13	11	14	20[7]
Linear density (bits/mm)	4880	7398	9638	13,250	15,142[14]
Encoding	RLL 1,7	RLL 0,13/11; PRML		RLL 32/33; PRML	
Cartridge memory	4 KiB			8 KiB	

http://en.wikipedia.org/wiki/Linear_Tape-Open

QUESTION 11

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.

QUESTION 12

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 13

A customer needs a storage solution with data replicated across two sites. RPO is set to less than two minutes. Which solution is the most cost-effective?

A. Two StoreVirtual arrays with Network RAID

B. Two XP P9500 arrays with Continuous Access

C. Two MSA arrays with Remote Snap software

D. Two 3PAR arrays with Remote Copy

Correct Answer: A

QUESTION 14

Which storage product supports a Microsoft SQL database and can be scaled linearly?

A. HP StoreAll 8200

B. HP StoreVirtual 4500

C. HP MSA 2040

D. HP StoreEasy 3800

Correct Answer: A

HPCA server + SQL database + ACAmail installed on HP ProLiant DL380p, G8 server.

2.

StoreAll 6.5 build installed on the HP StoreAll 8200 Gateway Storage model.

3.

HPCA IDOL and License installed on another HP ProLiant DL380p, G8 server.

QUESTION 15

What does the HP 3PAR StoreServ File Controller v2 provide?

A. It performs health checks and reporting to HP 3PAR Central.

B. It allows automatic provisioning from HP OneView

C. It allows access to virtualized third-party storage arrays

D. It adds NAS functionality to the HP 3PAR StoreServ

Correct Answer: C

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