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Designing HP Enterprise Storage Solutions

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QUESTION 1

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):

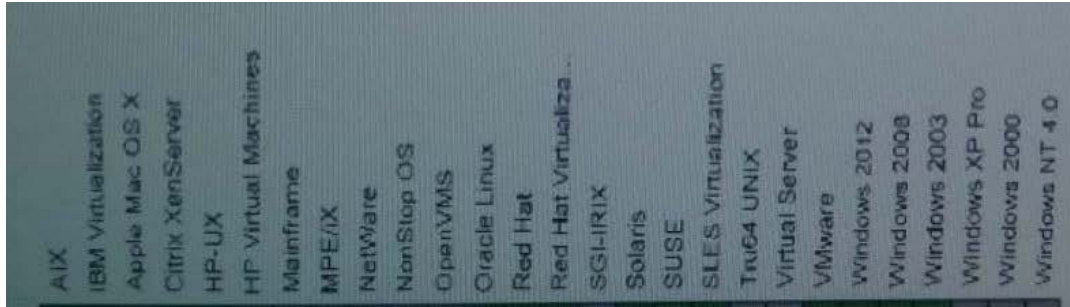
	AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	NetWare	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualization	SGI-IRIX	Solaris	SUSE	SLES Virtualization	Tru64 Unix	Ubuntu	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP Pro	Windows 2000	Windows NT 4.0
10000 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10800 10Gb FCoE													✓									✓						
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
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7450 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
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7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
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7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7200 10Gb FCoE													✓									✓						
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T8000 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.



	AIX	IBM	Ap	Cit	HP	HP	Ma	MF	Na	No	Op	Or	Re	Re	SG	So	SU	SL	Tr	Vir	VM	Wi	Wi	Wi	Wi	Wi	Wi
10800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
10400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
7400 FC				✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
7200 FC				✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			

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	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
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7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7400 10Gb FCoE													✓									✓						
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
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7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T800 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
T400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F400 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 FC	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
F200 iSCSI				✓								✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

QUESTION 2

You are designing an HP 3PAR StoreServ 7000 solution for an enterprise customer with a broad spectrum of UNIX server and Brocade switch technologies.

Many applications are supported on older hosts that have been in production for many years. There are concerns with current operating system level and firmware levels. Which approach should you use to provide upgrade information to the customer?

- A. Configure the array with an earlier release of the HP 3PAR InForm OS to ensure compliance in older enterprise environments.
- B. Collect sample server and SAN information and build a configuration report with HP Single Point of Configuration Knowledge (SPOCK) that depicts minimal supported release levels.

C. Provide the customer with access to Product QuickSpecs and the HP SAN Design Guide to assist with verifying integration compliance

D. Utilize HP 3 PAR Host Explorer to verify current host configuration compliance specifications

Correct Answer: B

<http://h20272.www2.hp.com/>

Welcome to the Single Point of Connectivity Knowledge (SPOCK) website. SPOCK is the primary portal used to obtain detailed information about supported HP Storage product configurations.

Explore HP 3PAR StoreServ Storage Interoperability

- » HP 3PAR StoreServ 10000 Storage was previously known as HP P10000 3PAR Storage System.
- » Storage array models 10400 and 10000 were previously known as P10000(V400) and P10000(V000) 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](#).

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10800 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	✓	✓		✓	✓							✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

http://h20272.www2.hp.com/Pages/spock2Html.aspx?htmlFile=sw_array_3par.html

HP Storage SPOCK

<p>» SPOCK Home</p> <p>» Announcements</p> <hr/> <p>SAN Compatibility</p> <p>» Compatibility Tool</p> <p>» View by Array</p> <p>» View by OS</p> <p>» View by NAS</p> <p>» View by FC Switch</p> <p>» View by FCoE Switch</p> <p>» View by SAS Switch</p> <p>» View by Router</p> <p>» View by CNA</p> <p>» View by HBA</p> <p>» My SPOCK</p> <p>» Configuration Set ZIP Files</p>	<p>3PAR Array Software</p> <p>SPOCK Home > Software > 3PAR Array Software</p> <p>HP 3PAR Operating System Software: Array Software</p> <ul style="list-style-type: none"> » HP 3PAR StoreServ Block Storage Drivers in OpenStack (112 KB PDF, 2013_10_17) » HP 3PAR SmartStart (10 KB PDF, 2013_10_14) » HP 3PARInfo (10 KB PDF, 2013_10_10) » HP 3PAR CLI Remote Client (14 KB PDF, 2013_11_13) » HP 3PAR Cluster Extension (CLX) for Linux (245 KB PDF, 2012_03_28) » HP 3PAR Cluster Extension (CLX) for Windows
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QUESTION 3

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 4

A customer is planning to move four HP BladeSystem c7000s to another location. The Onboard Administrator firmware is at the current version. The disk drives and Virtual Connect Flex-10 modules must be removed before shipment. Which design impact must be considered if the Virtual Connect Flex-10 modules are not reinstalled in their original locations?

- A. The Virtual Connect configurations on the installed chassis will be overwritten.
- B. The blade chassis will be reset to factory defaults.
- C. The original Virtual Connect configurations will remain intact.

D. All server network and SAN connections will be disabled.

Correct Answer: D

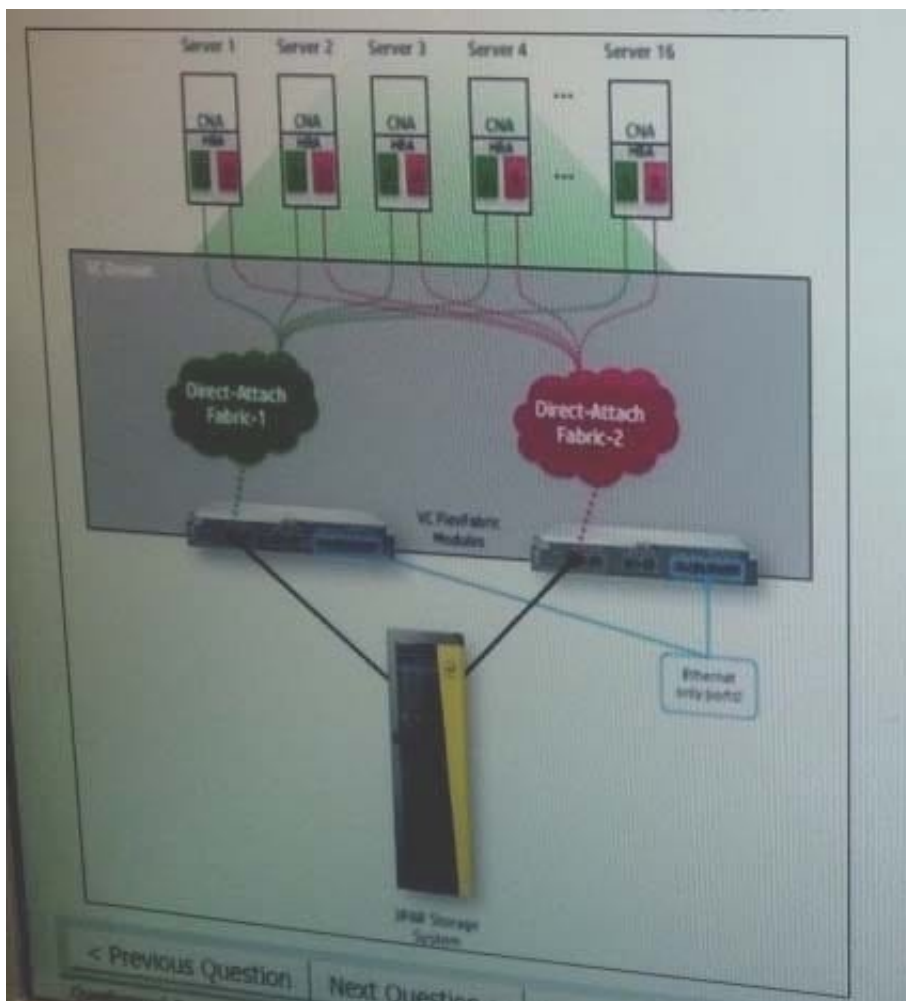
http://h20565.www2.hp.com/portal/site/hpsc/template.BINARYPORTLET/public/kb/docDisplay/resource.process/?spf_p.tpst=kbDocDisplay_ws_Blandspf_p.rid_kbDocDisplay=docDisplayResURLandjavax.portlet.begCacheTok=com.vignette.cachetokenandspf_p.rst_kbDocDisplay=wsrp-resourceState%3DdocId%253Demr_na-c03801914-2%257CdocLocale%253Dandjavax.portlet.endCacheTok=com.vignette.cachetoken

Connecting multiple enclosures Virtual Connect supports the connection of up to four c7000 enclosures, which can reduce the number of network connections per rack and also enables a single VC Manager to control multiple enclosures. A single set of cables can be used to carry all external Ethernet traffic from a single rack. Multiple enclosure support enables up to four c7000 enclosures to be managed within a single Virtual Connect domain.

QUESTION 5

The IT director for a packaged foods corporation is soliciting design concepts from vendors for a new call center infrastructure. The IT director's objectives are to use up to 16 state-of-the-art virtualized blade servers and easy-to-implement Fibre Channel storage.

Backup architecture is already provided by the IT director's team. After reviewing the customer needs, you begin to develop a solution. You show the IT director an illustration of the design. (Refer to the exhibit.)



Which benefit of the Flat SAN feature matches the customer needs?

- A. Simplify fabric management by connecting HP Virtual Connect FlexFabric Fibre Channel directly to HP 3PAR StoreServ Fibre Channel storage.
- B. Use Virtual Connect Flex-10 to further improve interconnect efficiency
- C. Scale with the pay-as-you-grow model and pay for only what is currently needed
- D. Manage through a single pane of glass with Virtual Connect Manager Web-based and Command Line Interfaces

Correct Answer: A

<http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-6479ENW.pdf>

HP 3PAR StoreServ Flat SAN and Direct Attached Storage In client virtualization environments, up to 80% of network traffic is server-to-server and server-to-storage. Legacy, multi-tier, fibre-channel network architectures require a complex web of network cards, interconnects, cables, and switches to keep pace with this changing traffic. This approach creates performance bottlenecks and drives higher costs and complexity to build, maintain, and secure at scale.

To address this problem HP announced HP Virtual Connect for 3PAR with FLAT SAN technology, the industry's first direct connection to fibre channel-based storage that does not require dedicated switches. This technology provides a simplified architecture with best-in-class storage and network innovations such as BadPSSrpm Virtual Connect, and the HP 3PAR StoreServ.

Customer benefits include these features:

- * Single layer fibre channel storage network eliminates SAN switches and Host Bus Adapters (HBAs)
- Massive simplification of fabric management
- 2.5x faster fibre channel storage provisioning
- 50% less infrastructure costs
- Automated zoning capabilities to set up zones with one-click
- Up to 55% less latency by removing the SAN fabric layer

QUESTION 6

Which HP 3PAR StoreServ key architectural benefit should be emphasized when presenting an HP StoreServ technical overview to a customer facing critical staff reductions in a multi-tier storage array environment with departmental array isolation requirements?

- A. identical operation system features and management tools from entry-level to enterprise-class array
- B. automated volume identification and export ID selection for Both UNIX and Windows 2008 hosts
- C. automated RAID level reconfiguration based on actively monitored pre-configured performance thresholds
- D. real time automated thin storage pool configuration guidance and configuration based on a selectable set of storage tiers

Correct Answer: D

<http://cloud-land.com/blog/category/storage/>

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA3-8316ENW.pdf> HP 3PAR StoreServ offers efficient, autonomic, and multi-tenant features to positively impact your critical business issues. It has set the gold standard for thin provisioning

and is the leading storage vendor offering a multidimensional approach to thin storage.

QUESTION 7

Your customer has been working with a member of your technical team to size a new HP StoreOnce Backup System in an HP Data Protector 7 environment. The engineer is out of the office but provides you with the report that they generated from the HP Storage Sizing Tool.

StoreOnce System Overview

Sizing Mode => Type: BasicDeDupe
 Product Line => HP StoreOnce Multi-Node
 Target Emulation => Catalyst Highbw
 Total Usable Capacity sized in StoreOnce => 67336 GB
 Peak Throughput required => 2010 MB/sec

StoreOnce Dedupe Retention Table

Job Name	Job SizeGB	SizedFor Years	Housekeeping Hours*	Block ChangeRate	Compaction Ratio	Total StoreGB	NAS Overhead**
BasicJob	57881.00	3	3.05	2 % - Medium Band2	8.52	67335.77	0.00

Category	JobName	SetName	BackupType	ChangeRate	Retention	Differentials
Advanced BasicJob	Daily	Incremental	20 %	5	N/A	
Advanced BasicJob	Weekly	Full	N/A	8	N/A	
Advanced BasicJob	Monthly	Full	N/A	1	N/A	

* These housekeeping hours are worst case and apply only when tapes are overwritten and this will vary according to rotation policy and retention period in the backup schedule. To reduce the level of housekeeping activity, it is strongly recommended to not reformat cartridges and instead use overwrite on expiry mode and not use appends to tape modes. See best practices for performance optimization whitepaper on hp.com fund43

** This is the capacity overhead associated with the additional Metadata used in the StoreOnce NAS Store. It will vary according to Backup applications and Backup Size.

StoreOnce B6200 Backup Sizing Overview

Sizing	Couplet	Nodes	Pairs1	Pairs2	Thruput	Streams
	1	2	3	0	0	0

StoreOnce B6200 Backup Sizing Overview						
Sizing	Couplet	Nodes	Pairs1	Pairs2	Thruput	Streams
Capacity	1	2	3	0	0	0
Performance	1	2	4	0	2222	48
Combined	1	2	4	0	0	0

Sizing - Performance is based on backup window and scheduling
 Couplet - Pair of nodes
 Nodes - Total number of nodes across all couplets
 Pairs1 - Pair of disk shelves with 28.8TB usable - using 2TB raw disk type
 Pairs2 - Pair of disk shelves with 14.4TB usable - using 1TB raw disk type
 Thruput - Max potential backup throughput of this multi node configuration in MB/sec
 Streams - Total number of streams across all nodes - equal number of streams per node

Which planning and configuration guideline has to be adhered to so this StoreOnce B6200 Backup System works as desired?

- A. A catalyst license is configured per node.
- B. Source Side Deduplication in Data Protector is disabled.
- C. The usage of VTLs and shares is avoided.
- D. An adequate number of streams are configured.

Correct Answer: D

An adequate number of streams are configured

QUESTION 8

An advantage of using HP StoreOnce Catalyst with the HP StoreOnce B6200 Backup System is a reduction in bandwidth between which two components?

- A. the HP StoreOnce B6200 Backup System and the tape library
- B. the media server and the client
- C. the HP StoreOnce B6200 Backup System and the client
- D. the media server and the HP StoreOnce B6200 Backup System

Correct Answer: D

<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-4480ENWandcc=usandlc=en> http://www.conres.com/stuff/contentmgr/files/0/a1d681554de12de089adc5229589f778/download/d/hp_storeonce_catalyst_best_practice_release1.pdf

QUESTION 9

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.

The company preferred to implement an iSCSI storage solution to reduce implementation costs. Which additional benefit of an HP StoreVirtual Storage solution should you emphasize in your proposal?

- A. scale-up architecture
- B. support for multiple workloads
- C. built-in replication disaster recover
- D. thin convergence

Correct Answer: D

The company preferred to implement an iSCSI storage solution to reduce implementation costs. You need affordable storage designed for a virtualized infrastructure that's easy to manage, supports continuous data growth, and keeps your

business up and running. HP StoreVirtual 4000 Storage, based on the LeftHand operating system, is a scale-out storage platform that is designed to meet the fluctuating needs of virtualized environments. Intuitive, common management and

storage federation meet the need for simplicity and flexibility in today's virtual datacenters. It allows data mobility across tiers, locations, and between physical and virtual storage..

HP StoreVirtual is the most versatile storage platform on the market today. Its software-defined storage VSA software, and ProLiant rack and BladeSystem-based hardware models provide options to fit any infrastructure and budget.

Enterprise-class storage software functionality and leading virtualization software integration are built-in. This makes StoreVirtual the ideal platform for supporting virtualization growth at all stages. HP P4800 G2 31.5TB SAS SAN

BladeSystem, Thin provisioning support SAN/iQ Thin Provisioning. LeftHand Remote Copy lets you asynchronously replicate thin provisioned, (Not Answer D,)

QUESTION 10

Which condition result in an Persistent Port failover on an HP 3PAR StoreServ array at In Farm OS level 3.1.3? (Select two)

- A. Automatic master node assignment change
- B. RSCN event after zone set update
- C. Loss of port sync
- D. User directed Host Persona Change
- E. Node Reboot or spontaneous failure

Correct Answer: BD

Fabric zoning controls which FC end-devices have access to each other on the fabric. Zoning also isolates the host and HP 3PAR StoreServ Storage ports from Registered State Change Notifications (RSCNs) that are irrelevant to these ports

When changing an existing host persona from 6 to 11, a host reboot is required for the change to take effect. This is an offline process. See "Configuring ESX/ESXi Multipathing for Round Robin via SATP PSP" (page 42) for the detailed procedure, as the host persona change should coincide with changing the SATP rules on the host as well.

QUESTION 11

A regional market leader in direct financial services runs several call center across the United States and is opening a number of new call center in the near future. The client uses Windows XP on dedicated workstations. The IT infrastructure consists of numerous HP Proliant DL360 G5 and HP Proliant DL360 G6 servers running VMware ESX or SUSE Linux for the database server direct-attached storage and HP Ultrium tape drives. They want to consolidate the infrastructure.

You are meeting with the IT director. Which technical benefits should you emphasize in your presentation of a new solution? (Select two)

- A. faster time-to-market for new services
- B. decreased operational expenditure (OPEX)
- C. decreased rack space and power usage
- D. greater service margin
- E. reduced time-to provision systems

Correct Answer: BE

<http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA0-0559ENW.pdf> Simplify your data center; make it more flexible, efficient, and less expensive to operate. Tom Joyce, GM and SVP HP Converged Systems, explains how HP

Converged Infrastructure can turn your IT into a business advantage.

QUESTION 12

A customer needs to refresh a mission-critical Fibre Channel block storage solution. They need a budgetary quote by end of the week. Which key initial information should you gather to design an appropriate high-level HP Storage solution?

- A. number of host ports needed, current volume counts IOP averages, disaster recovery, and backup criteria
- B. current RAID levels, backup and replication criteria, number of SAN ports, and current disk speeds
- C. current RAW capacity, estimated array level IOPS, replication and backup criteria, and number of host ports needed.
- D. usable capacity, replication and backup criteria, number of thinly provisioned volumes, and deduplication ratios

Correct Answer: C

mission-critical Fibre Channel block storage solution Simplification of your storage management Lowering costs Increased performance Ensuring reliability Supporting green initiatives Scalability Security

QUESTION 13

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 14

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 15

A customer wants to integrate a data deduplication solution into an online storage environment.

Which HP solution should be integrated into the design to meet the customer requirements?

- A. HP MSA Storage
- B. HP StoreVirtual
- C. HP 3PAR StoreServ
- D. HP StoreEasy

Correct Answer: D

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