HP0-J64^{Q&As}

Designing HP Enterprise Storage Solutions

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QUESTION 1

A pharmaceutical company is planning to replace their existing SAN storage platform with new HP 3PAR StoreServ array. They tell you that they have a very mixed environment, but have no inventory or diagram of the existing environment. Which tool gathers information to determine compatibility of your proposed array?

A. HP Configuration Collector

B. HP SAN Designer

C. HP System Reporter

D. HP SAN Visibility

Correct Answer: D

HP SAN Visibility SAN Visibility is a complementary software utility for HP customers that helps with SAN Analysis, SAN Diagnostics and SAN Optimization. SAN Visibility saves you considerable time, money, and effort by automating inventory activities and providing a quick and accurate view of your SAN topology. SAN Visibility has an automated report generation feature that produces recommendations, topology diagrams, and informative SAN element reports for switches, host bus adapters and storage array connectivity. SAN Visibility runs on any Windows desktop or laptop which has network connectivity to a switch within your SAN http://h18006.www1.hp.com/storage/networking/sansolutions.html

HP SAN Designer SAN Designer is a powerful application to help you design a customized SAN. Configure and design your SAN based on the following attributes: performance, cost, and future growth requirements. SAN Designer helps you select the fabric characteristics as well as the SAN elements allowing for a complete SAN Design. The reporting feature of SAN Designer generates topology diagrams, required SAN components, and additional recommendations for your SAN Design. SAN Designer is a complementary software utility for HP customers and runs on a Windows desktop or laptop. http://h18006.www1.hp.com/storage/networking/sandesigner.html

QUESTION 2

HP Secure Key Manager provides centralized encryption technologies for which tape libraries?

A. HP ESL Tape Libraries w/LTO3 tape drives

B. HP EML Tape Libraries w/LTO4 tape drives

C. HP ESL Tape Libraries w/SDLT 600 tape drives

D. HP VLS9000 Virtual Libraries w/LTO4 tape emulation

Correct Answer: B

Models HP Secure Key Manager Models HP Secure Key Manager, ESL/EML tape libraries and Encryption SAN Switches are purchased separately from Secure Key Manager.
http://h20564.www2.hp.com/portal/site/hpsc/public/kb/docDisplay/?docId=c04007622

HP StoreOnce and StoreEver Enterprise Backup Solutions (EBS) Hardware/Software Compatibility Matrix

Firmware for StoreEver Tape Libraries / Autoloaders / Tape Drive Products

Enterprise Class Libraries [3]		Firmware
ESL G3	(MCB Ver. 2)	665H.GS12501
	(MCB Ver. 1)	653H_GS00201
Ultrium 6650	(LTO-6 FH FC)	J3HW
Ultrium 3280	(LTO-5 FH FC)	I68W
Ultrium 1840	(LTO-4 FH FC)	H6DW
EML E-Series		1483
Ultrium 6650	(LTO-6 FH FC)	J38S
Ultrium 3280	(LTO-5 FH FC)	I67S
Ultrium 1840	(LTO-4 FH FC)	H65S
Ultrium 960	(LTO-3 FH FC)	L6HS

Business Class Libraries & Autoloaders [2,3]		Firmware
MSL6480	(FC or SAS Drives only)	4.00
MSL8096 / 8048		1120
MSL4048		8.60
MSL2024		6.10
1/8 G2 Autoloader	(HH Drives only)	4.20
Ultrium 6250	(LTO-6 HH FC)	23CW
Ultrium 6250	(LTO-6 HH SAS)	33DW
Ultrium 3280	(LTO-5 FH FC)	I65W
Ultrium 3000	(LTO-5 HH FC)	Y65W
Ultrium 3000	(LTO-5 HH SAS)	Z65W
Ultrium 1840	(LTO-4 FH FC)	H6CW
Ultrium 1840	(LTO-4 FH SCSI)	B63W
Ultrium 1760	(LTO-4 HH SAS)	U61W
Ultrium 1760	(LTO-4 HH SCSI)	W61W
Ultrium 960	(LTO-3 4Gb FH FC)	M63W
Ultrium 960	(LTO-3 2Gb FH FC)	L63W
Ultrium 960	(LTO-3 FH SCSI)	G63W
Ultrium 920	(LTO-3 HH SCSI)	D24W
Ultrium 920	(LTO-3 HH SAS)	C25W / Q51W [2]

Key Managers for Tape Drive Encryption

Key Management Appliances [1]	Firmware
HP Enterprise Secure Key Manager 3.0	5.0.0 or later
HP Enterprise Secure Key Manager 2.1	As shipped
HP Secure Key Manager 1.1	4.8.1
SafeNet KeySecure models k150 or k460 [1]	6.0.2

NOTES:

1) Refer to the KeySecure Interoperability website for additional information.

2) Refer to Library and Tape Tools to determine correct FW versions for libraries and tape drives.

3) See Page 15 for the full list of firmware requirements.

Oct 2013, v1   Refer to "How to Use This Document" on pg. 3.   Page 9 of 25

To greatly enhance data privacy, HP EML Tape Libraries are available with LTO-6 Ultrium 6650, LTO-5 Ultrium 3280 and LTO-4 Ultrium 1840 hardware encrypting tape drives for secure high performance backups meeting consortium specifications.. HP Data Protector Software can enable the drive encryption and provide basic key management capabilities. Additional information regarding ISV\'s supporting hardware encryption is available on the HP Enterprise Backup Solutions (EBS) website at: www.hp.com/ go/ebs. The encryption on LTO-6, LTO-5 and LTO-4 media occurs with or without compression, and without speed or capacity penalties. Hardware encryption is not supported on LTO-2 and LTO-3 tapes.

LTO-6, LTO-5 and LTO-4 use the Advanced Encryption Standard (AES) with the longest and most secure keys -- 256 bits. AES-256 is implemented within Galois Counter Mode (GCM). This is a method of increasing AES security by efficiently adding Message Authentication Codes to ensure the integrity of the backup data stored on tape. The HP LTO-6, LTO-5 and LTO-4 tape drive(s) are designed to be compliant with the standard for tape drive security (IEEE 1619.1). ESKM: The HP Enterprise Secure Key Manager reduces your risk of a costly data breach and reputation damage while improving regulatory compliance with a secure centralized encryption key management solution for HP LTO-6, LTO-5 and LTO-4 enterprise tape libraries (EML and ESLG3). In addition, the ESKM provides strong auditable security and reliable lifetime key archival. The ESKM and LT0-6/LT0-5/LT0-4 drive encryption in the EML library provides a complete and secure privacy solution to protect customers\' confidential data. Please note Secure Manager license is required for CVTL to enable connection to ESKM. For further information on the ESKM please visit: www.hp.com/go/eskm

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LTO-4

- First mechanisms approved in April 2007.[21] First media approved in May 2007.[22]
- Doubled capacity again to 800 GB.
- Increased data transfer rate to 120 MB/s (maximum).
- Introduced drive level encryption feature using 256-bit AES-GCM.

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

QUESTION 3

Which HP 3PAR InForm Operating System feature provides Tier 1 resiliency and allows for non-disruptive online software upgrades on HP 3PAR StoreServ Storage systems without replying on multipathing software?

A. HP 3PAR Autonomic Rebalance

B. HP 3PAR Access Guard

C. HP 3PAR Persistent Cache

D. HP 3PAR Persistent Ports

Correct Answer: D

http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA3-2542ENW.pdf

HP 3PAR Persistent Ports HP 3PAR Persistent Ports is another Tier 1 resiliency feature that provides non-disruptive online software upgrades on HP 3PAR StoreServ Storage without relying on multipathing software to initiate failover. This feature, available on all HP 3PAR StoreServ models, brings Tier 1 resiliency across the 3PAR StoreServ product line, including midrange models, by helping to ensure that host paths remain online throughout the software upgrade process. The use of standard NPIV (N_Port ID Virtualization) technology enables a single host-facing 3PAR StoreServ port to assume the identity of additional predesignated partner ports, thus enabling transparent switchover of host path connections.

QUESTION 4

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.

One proposed solution is based on a Fibre Channel infrastructure using HP BladeSystem Virtual Connect technology and focuses on reducing management complexity when a blade server fails. Which additional customer-related value can you emphasize when implementing this concept in conjunction with an HP 3PAR StoreServ solution?

A. uses Virtual Connect Enterprise Manager to raise storage and management efficiency by establishing unified management

B. maximizes future expandability by introducing scale out storage node increments

C. avoids performance bottlenecks and management complexity by introducing multitenancy

D. reduces capital and operational expenditures by flattening the SAN

Correct Answer: A

P Virtual Connect Enterprise Manager (VCEM) centralizes connection management and workload mobility for HP BladeSystem servers that use Virtual Connect to access LANs, SANs and converged network infrastructures. VCEM helps organizations increase productivity, respond faster to workload and configuration changes, and reduce operating costs. http://h18004.www1.hp.com/products/blades/ components/ethernet/vcem/index.html http://h20195.www2.hp.com/V2/ GetPDF.aspx/4AA4-1503ENW.pdf

QUESTION 5

A customer wants to implement a new backup solution. The environment is predominantly Fibre Channel with Windows 2008, Linux hosts, and a number of HPUX hosts attached to a 10 GbE network. They have expressed an interest in the HP StoreOnce technology and its integration with HP Data Protector.

When designing an HP StoreOnce solution for this environment, what needs to be considered?

A. Catalyst integration is only supported on Windows and HPUX hosts.

B. Catalyst gateway are used on the HP-UX hosts.

C. Linux hosts requires Catalyst gateway

D. Fibre Channel hosts may only use VTL emulation.

Correct Answer: D

http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03478346-1.pdf http://h20195.www2.hp.com/V2/ GetPDF.aspx%2F4AA4-1776ENW.pdf http://www.hp.com/hpinfo/newsroom/press_kits/2012/ HPDiscover2012/HPSD_Discover_Store Once_Fact_Sheet.pdf
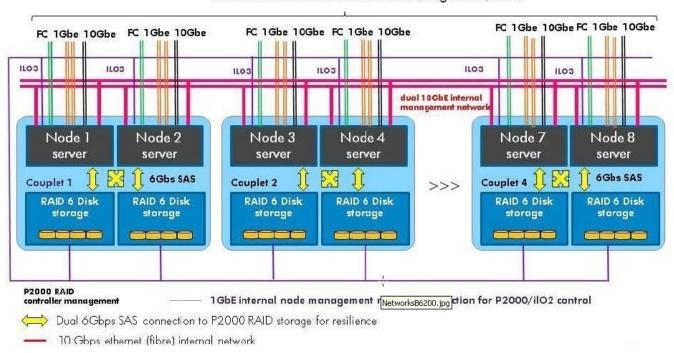
Comparison table of emulations; showing key features and when to use

Emulation	Key Features	Best used in	Comments
Virtual Tape	Uses virtual tape drives and virtual slots to emulate physical tape libraries	Enterprise FC SAN environment (B6200 and 4xxx series). HP StoreOnce also supports iSCSI VTL (4xxx and 2xxx series)	Tried and tested, well understood but lacks sophistication. Uses NetBackup Robot and Drives device type
NAS (CIFS/NFS shares)	NAS shares can be easily configured and viewed by the operating system	Specific environments that do not support tape emulation backup or prefer to backup directly to disk. In some cases the licensing may be lower cost for NAS shares as a backup target.	This is a NAS target for backup – not recommended for random NAS file type access. Uses NetBackup Basic Disk device type
OST with StoreOnce Catalyst	NetBackup has total control over the HP StoreOnce appliance, providing source based deduplication, replication control, improved DR etc.	Environments that require a single management console for all backup and replication activities and the ability to implement federated deduplication*	Requires HP OST 2.0 plugins to be installed on NetBackup Media servers. Uses NetBackup OpenStorage device type

Each node has two 8Gb FC connections (used for VTL only), two 10GbE and four 1GbE Ethernet connections (used for NAS shares or Catalyst stores). Figure 4 illustrates these physical connections.

Resilient user connections for management/data