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Exam Code: HP0-J64

Exam Name: Designing HP Enterprise Storage Solutions



Sections

1. (none)

Exam A

QUESTION 1

On which entity is a Cyclic Redundancy Check (CRC) function reformed when using the HP StoreOnce Backup System

- A. frame
- B. transferred file
- C. chunk
- D. backup job

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Answer: C

QUESTION 2

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 workstation. 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. reduce time-to provision systems

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Answer: C and E

QUESTION 3

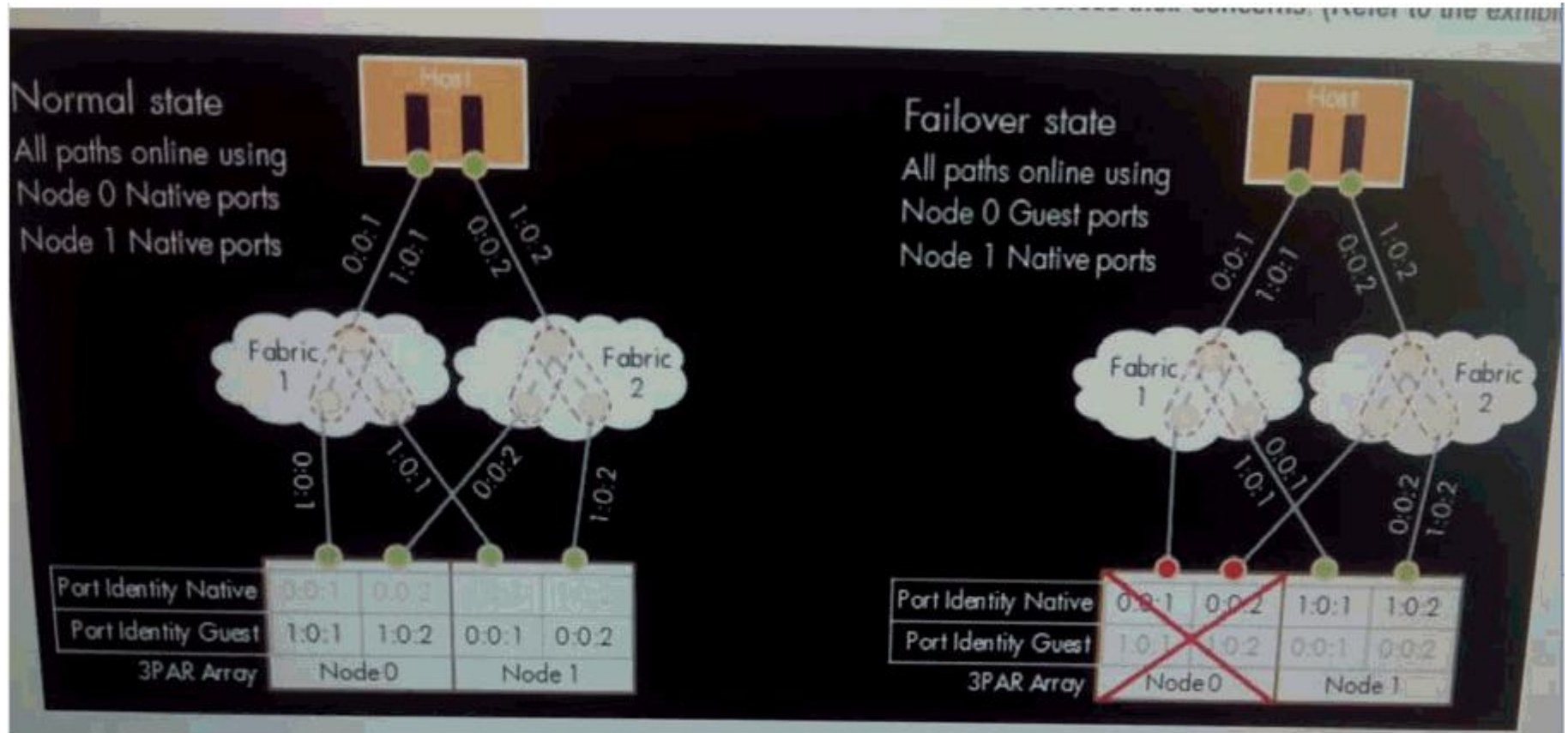
A company's Leas SAN Architect considers HP 3PAR StoreServ a Tier 2 solution due the requirement for node reboot during inform Operating System upgrades. You present the 3PAR Persistence Port feature to the customer to address their concerns (Refer to the exhibit)

Picture click bottom Exhibit

Question:

Which crucial characteristics are true about the HP 3PAR Persistence Port feature? (Select two)

Exhibit:



- A. The host MPIO software must be reset to restarted after a failover scenario to restore the correct pathbalance
- B. HP 3PAR Persistence Port requires additional failover zone for each node's guest World Wide Name (WWN)
- C. HP 3PAR Persistence Port will maintain connectivity during 3PAR mode upgrade or 3PAR node failure even with a single path host
- D. HP 3PAR Persistence Port requires a minimum to two paths per each World Wide Name (WWN) with additional 1:1 zones

- E. One a two node array, the HP 3PAR Persistence Port minimum setup requires each fabric switch to be physically connected equally to each in a nodepair

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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

- A. Catalyst integration is only support on Windows and HP/UX 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

Section: (none)

Explanation

Explanation/Reference:

<http://h20564.www2.hp.com/bc/docs/support/SupportManual/c03121420/c03121420.pdf>
(page 13)

Fibre Channel topologies

HP B6000 Backup Systems support switched fabric topologies only.

HP G2 and G1 Backup Systems support both switched fabric and direct attach (private loop) topologies.

A direct attach (point-point) topology is not supported on any HP StoreOnce Backup System..

A switched fabric topology utilizes one or more fabric switches to provide a flexible configuration between several Fibre Channel hosts and Fibre Channel targets such as HP StoreOnce Backup Systems.

Switched fabric configurations are implemented with Fibre Channel switches. Switches may be cascaded or meshed together to form larger fabrics.

Flexible emulation 13

A direct attach topology is implemented by connecting the HP StoreOnce Backup System directly to a Host Bus Adapter (HBA). In this configuration the Fibre Channel private loop protocol must be used.

The preferred topology for the HP StoreOnce Backup System is switched fabric using NPIV (N_Port ID Virtualisation).

QUESTION 5

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 application running under multiple operating systems. They must support AIX, VmWare and Microsoft Windows.

10800FC-uno (exhibit):

AIX
IBM Virtualization
Apple Mac OS X
Citrix XenServer
HP-UX
HP Virtual Machine
Mainframe
MPE/iX
NetWare
NonStop OS
OpenVMS
Oracle Linux
Red Hat
Red Hat Virtualiza
SGI-IRIX
Solaris
SUSE
SLES Virtualization
Tru64 UNIX
Virtual Server
VMware
Windows 2012
Windows 2008
Windows 2003

	AIX	IBM	Ap	Cit	HP	HP	Ma	MF	Ne	No	Op	Or	Re	Re	SG	So
<u>10800 FC</u>	✓	✓		✓	✓							✓	✓	✓		✓
<u>10800 10Gb iSCSI</u>				✓								✓	✓	✓		✓
<u>10400 FC</u>	✓	✓		✓	✓							✓	✓	✓		✓
<u>10400 10Gb iSCSI</u>				✓								✓	✓	✓		✓
<u>7400 FC</u>				✓	✓							✓	✓	✓		✓
<u>7400 10Gb iSCSI</u>				✓								✓	✓	✓		✓

10800FC-duo (exhibit):

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 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 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 Virtualiza...
SGI-IRIX
Solaris
SUSE
SLES Virtualization
Tru64 UNIX
Virtual Server
VMware
Windows 2012
Windows 2008
Windows 2003
Windows XP Pro
Windows 2000

10800FC-trio (exhibit):

<u>7400 FC</u>				✓	✓								✓	✓	✓		✓	✓	✓
<u>7400 10Gb iSCSI</u>				✓									✓	✓	✓		✓	✓	✓
<u>7200 FC</u>				✓	✓								✓	✓	✓		✓	✓	✓
<u>7200 10Gb iSCSI</u>				✓									✓	✓	✓		✓	✓	✓
<u>T800 FC</u>	✓	✓		✓	✓								✓	✓	✓		✓	✓	✓
<u>T800 iSCSI</u>				✓									✓	✓	✓		✓	✓	✓
<u>T400 FC</u>	✓	✓		✓	✓								✓	✓	✓		✓	✓	✓
<u>T400 iSCSI</u>				✓									✓	✓	✓		✓	✓	✓
<u>F400 FC</u>	✓	✓		✓	✓								✓	✓	✓		✓	✓	✓
<u>F400 iSCSI</u>				✓									✓	✓	✓		✓	✓	✓
<u>F200 FC</u>	✓	✓		✓	✓								✓	✓	✓		✓	✓	✓
<u>F200 iSCSI</u>				✓									✓	✓	✓		✓	✓	✓

- A. HP StoreServ 7400 C
- B. HP StoreServ 10800 iSCSI
- C. HP StoreServ T400 iSCSI
- D. HP StoreServ 108000 FC

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which HP 3PAR InForm Operating System feature allows you to create point-in-time clones with independent service-level parameters?

- A. Virtual Copy
- B. Smart Copy
- C. Remote Copy
- D. Full Copy

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

HP 3PAR Raid Multi-Parity (MP), fast Raid 6, performance within 15% of Raid10

HP 3PAR Full Copy, create thin-aware, point-in-time clones with independent service level parameters

HP 3PAR Thin Copy Reclamation feature keeps storage lean and efficient by reclaiming unused space resulting from the deletion of virtual copy snapshots associated with virtual copy and remote copy volumes

QUESTION 7

A company is experiencing performance issues on their four node HP StoreServ 10800 configured with 256x 300 GB Fibre Channel drives. A System Reporter analysis reveals that single tier of Fibre Channel storage is under a lot of I/O pressure from an explosion of VMware servers running high I/O messaging applications used to track package routes daily in an Oracle database.

There are 40x 50 GB thin provisioned volumes that make up 90% of mostly read I/O activity during regular business hours. The customer is upset and need a solution to quickly increase performance for these critical applications.

Which solution should you propose to cost-effectively resolve this issue?

- A. Upgrade with 256 additional 300 GB drives and Adaptive Optimization to automatically move high I/O volume regions to a Raid 10 CPG for better I/O performance
- B. Utilize Peer Motion to non-disruptively move the offending work load to an SSD optimized HP 3PARStoreServ array
- C. Upgrade with 32x 100GB SSD drives and Adaptive Optimization configured for performance-based placement in two storage tiers.
- D. Upgrade with 2 additional nodes and double host-facing Fibre Channel ports to achieve better I/O caching across all array nodes when accessing small volumes.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

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: B

Section: (none)

Explanation

Explanation/Reference:

HP Storage Essentials SAN Visibility (SAN Visibility) is a free software utility that enables you to analyze your SAN environment. It enables you to better design, administer, and manage a SAN.

<http://www.hp.com/go/sandesignguide.com>

HP 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.

<http://www.hp.com/go/sandesignguide.com>

QUESTION 9

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: C

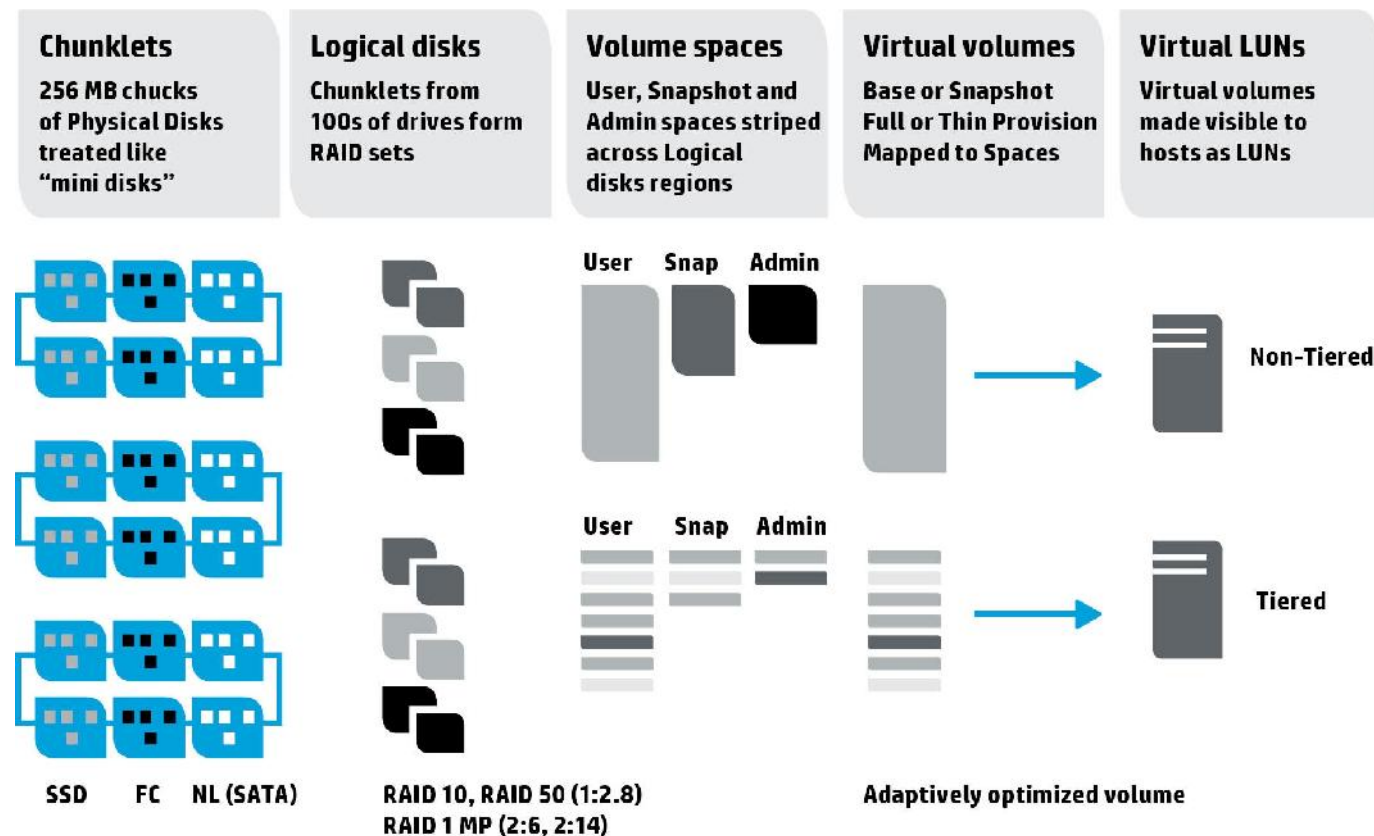
Section: (none)

Explanation

Explanation/Reference:

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 Adaptive Optimization:



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 10

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 environment in a single array and added a separate array to ensure adequate performance.

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

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 autonomic save up to 90% of administrator time.

Help for novice storage users in a Windows, VMware or Linux environments for self-installation.

QUESTION 11

A company is replacing their outdated storage environment with an HP 3PAR StoreServ 7000 at the primary site and also in their co-location facility. These HP 3PAR 7000 Software Suites are included on the proposed package:

- HP 3PAR 7000 Operating System Software Suite
- HP 3PAR 7000 Reporting Software Suite
- HP 3PAR 7000 Application Software Suite for VMware
- HP 3PAR 7000 Replication Software Suite

What can be accomplished with the proposed software solution (Select two)

- A. taking a time-consistent snapshot of their Oracle volumes every 4 hours to protect against
- B. reduction in the amount of physical storage needed with the uses of thin technologies
- C. autonomic storage tiring as their image files become dated
- D. replication of all critical data to the co-location site for disaster recovery
- E. frozen, point-in-time copies of employee data for compliance

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

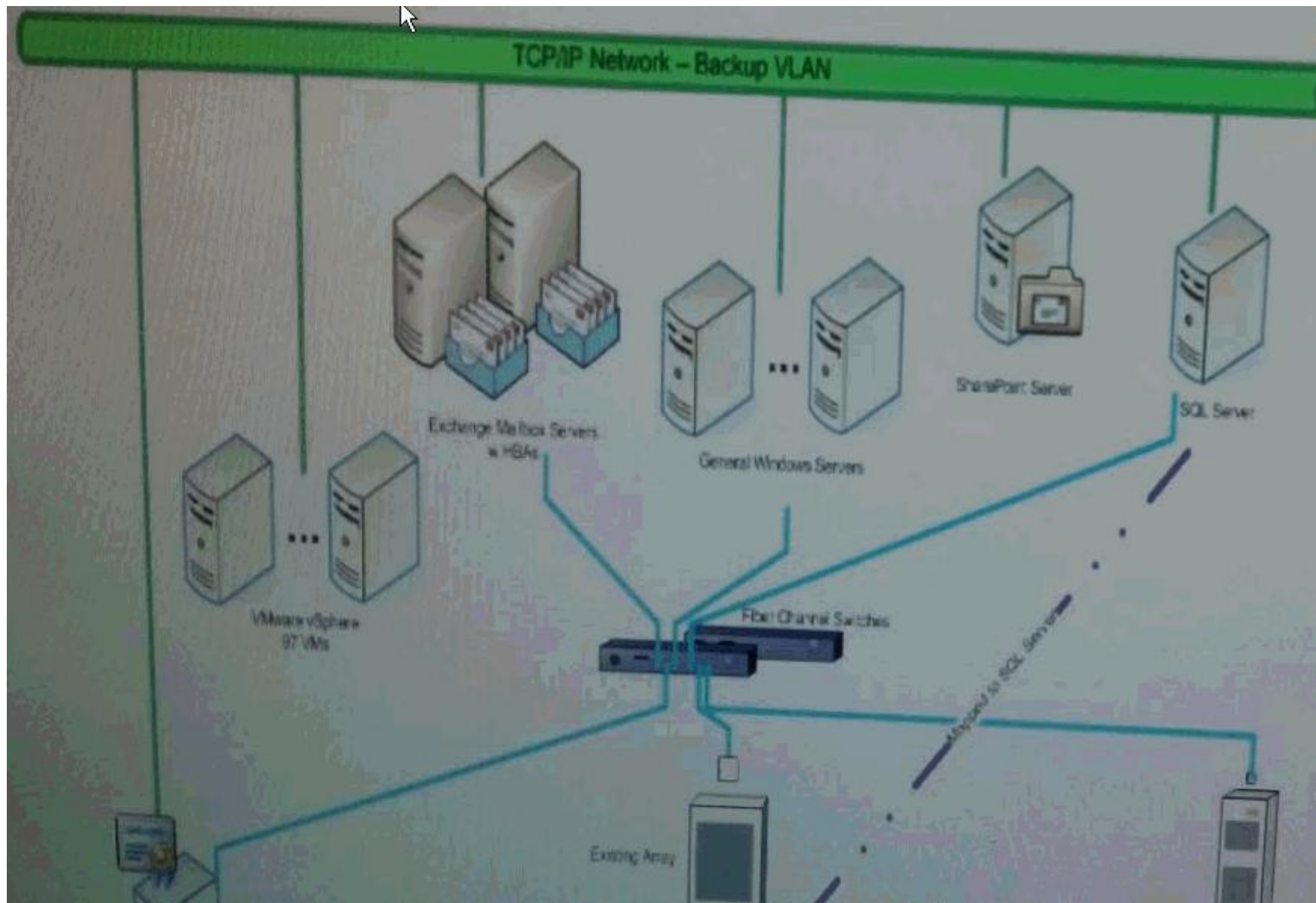
QUESTION 12

Your customer wants to do a refresh on their storage environment. They have given you a drawing to show the existing environment and told you the following:

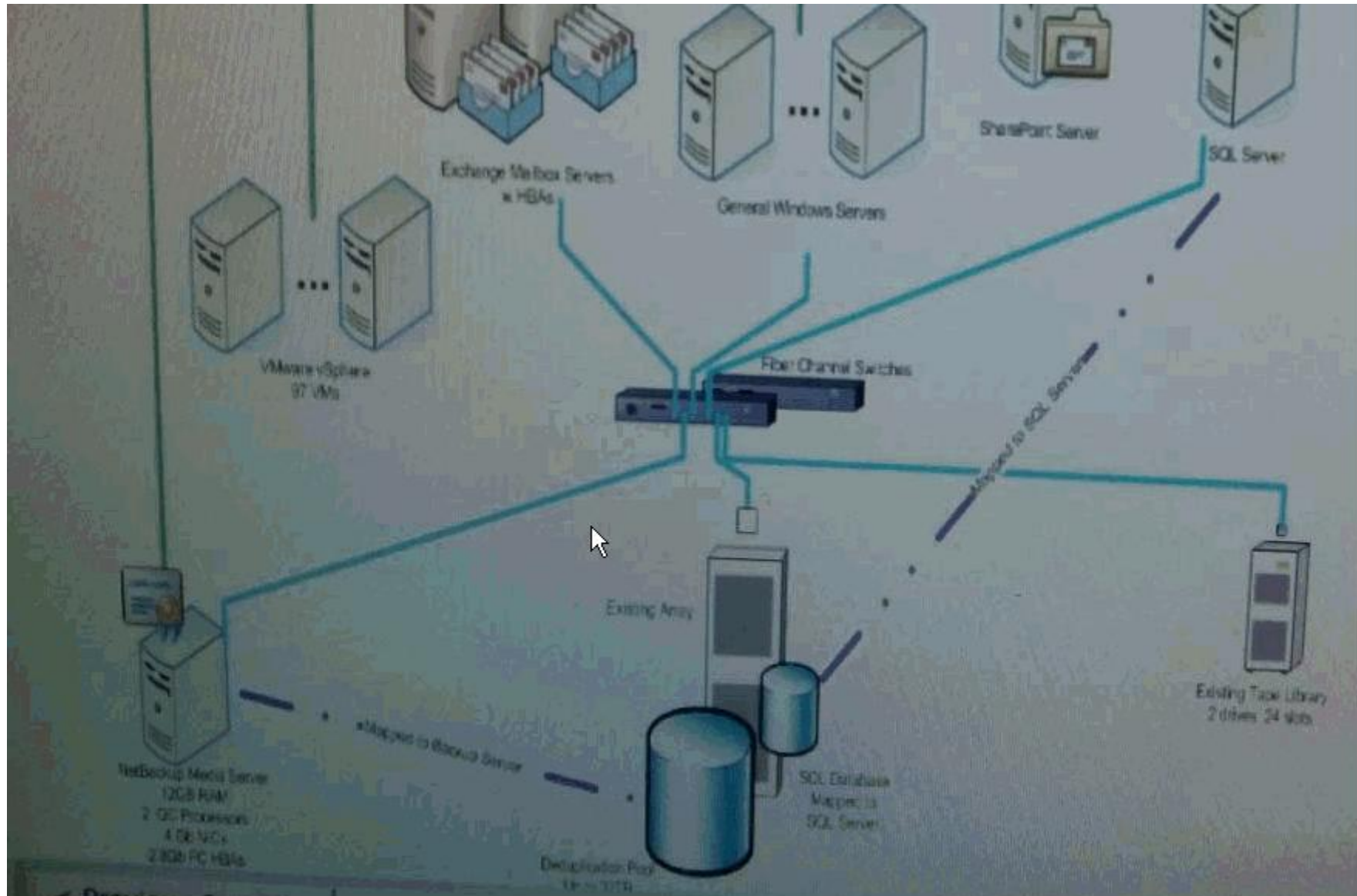
- Their preferred SAN fabric is Fibre Channel-based and the switches are only a year old.
- They want to purchase a single block storage solution that services all applications.
- The NetBackup deduplication pool has provide to be an expensive option, and a new backup target is required
- Budget is limited

Which HP Storage product should you prepare to discuss in your initial meeting with this customer (Select two)

question12-a (exhibit):



question12-b (exhibit):



- A. HP StoreEasy 3830 Storage
- B. HP StorageVirtual 4330 Storage
- C. HP StoreOnce B6200 Backup

- D. HP StoreOnce 2620 Backup
- E. HP StoreServ 7400 Storage
- F. HP StoreOnce 4430 Backup

Correct Answer: BF

Section: (none)

Explanation

Explanation/Reference:

<http://www8.hp.com/pt/pt/products/disk-storage/product-detail.html?oid=5335854#!tab=features>
HP StorageVirtual 4330 Storage

<http://www8.hp.com/pt/pt/products/disk-backup/product-detail.html?oid=5335875#!tab=features>
HP StoreOnce 4430 Backup

QUESTION 13

Which field should you change to increase useable capacity and still meet the remaining requirements?

question13-a (exhibit):

Refer to the exhibit.

HP StoreServ 7000 Calculator #1

Hardware Configuration Selections and Calculator Options

Array Type:

Location/Site: Sparing Policy:

Model Choice:

Recommended:

User Workload Definition

Add Requirement By:

Enter the number of disks: Disks

Disk Type:

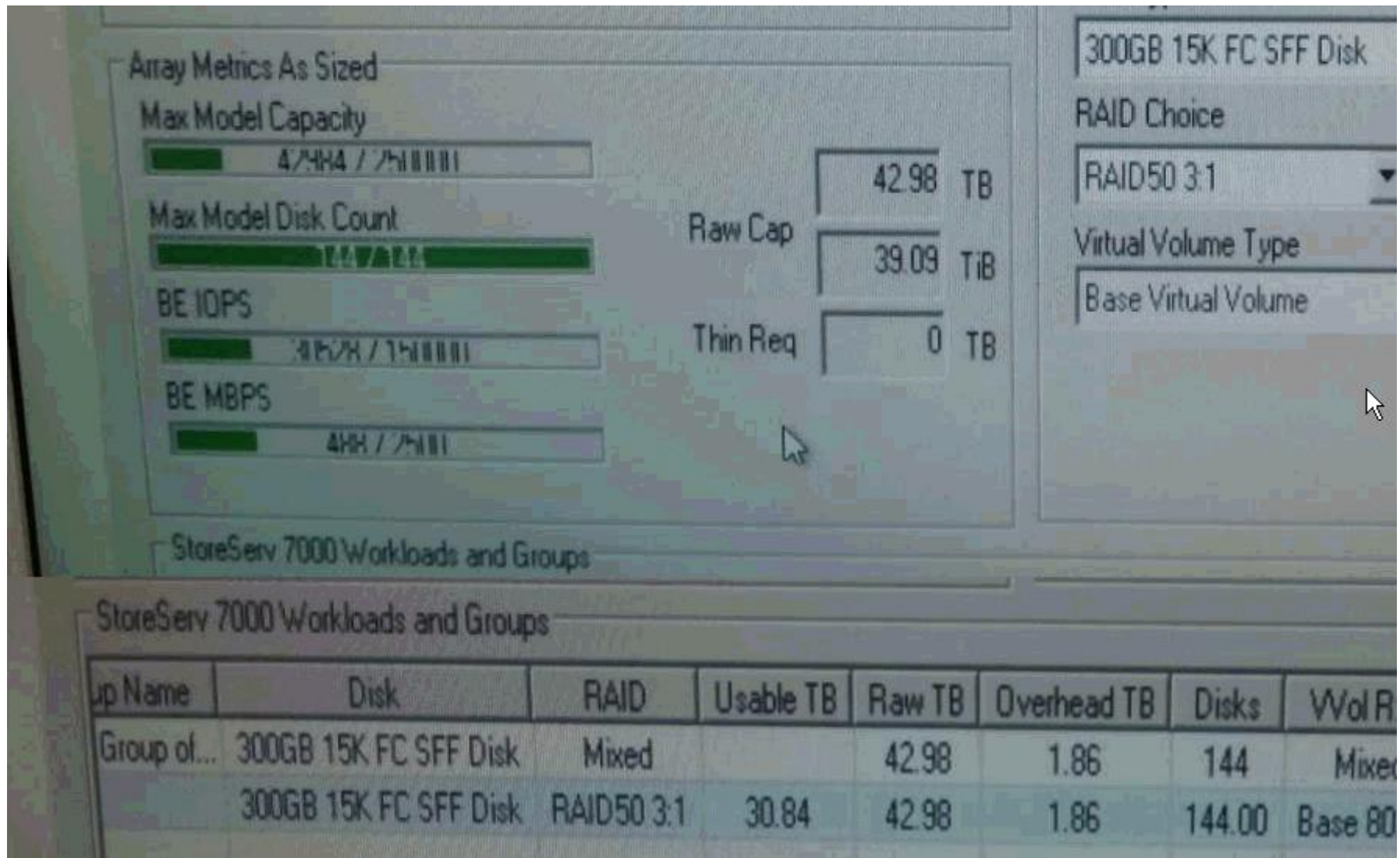
RAID Choice:

Array Metrics As Sized

Max Model Capacity: TB

Max Model Disk Count:

question13-b (exhibit):



- A. Read %
- B. Raid choice
- C. Number of disk
- D. Disk type

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

You have Proposed HP 3PAR StoreServ thin provisioning capability to achieve a 40% reduction in raw storage requirements. The customer considers all storage vendors thin provisioning equal.

What are the competitive differentiators of HP 3PAR StoreServ thin provisioning? (Select two)

- A. fills empty volume space with zeros for space reclaim identification
- B. does not require resource pools
- C. provides equivalent performance to a normally provisioned volume
- D. features dynamic RAID level conversion based on peak write demand statistic to maintain performance
- E. automatically converts fully provisioned volumes to thin volumes

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

- **Start Thin:** HP 3PAR Thin Provisioning is the most comprehensive thin provisioning software solution available. Since its introduction in 2002, 3PAR Thin Provisioning has become widely considered the gold standard in thin provisioning. It leverages HP 3PAR's dedicate-on-write capabilities to make organizations more efficient and more green, allowing them to purchase only the disk capacity they actually need and only as they actually need it.
- **Get Thin:** With HP 3PAR Thin Conversion, a technology refresh no longer requires a terabyte-for-terabyte replacement, but instead offers the opportunity to eliminate up to 75% of your legacy capacity, simply and rapidly. This savings alone can save up to 60% on the cost of a technology refresh. HP 3PAR Thin Conversion software makes this possible by leveraging the zero-detection capabilities within the HP 3PAR ASIC and Thin Engine - HP 3PAR's unique virtualization mapping engine for space reclamation - to power the simple and rapid conversion of inefficient, "fat" volumes on legacy arrays to more efficient, higher-utilization "thin" volumes on any HP 3PAR Storage System featuring Thin Built In™.
- **Stay Thin:** With 3PAR Thin Persistence, customers can now leverage next-generation space reclamation technology to minimize storage TCO and maintain environmental responsibility targets they have worked so hard to achieve.

QUESTION 15

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 server, 2x6 core Westmere Processor, 128 GB of RAM
- vCenter Server or physical host, 1x6 core, 16Gb of RAM, MS Windows 2008 R2 license
- license 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: B

Section: (none)

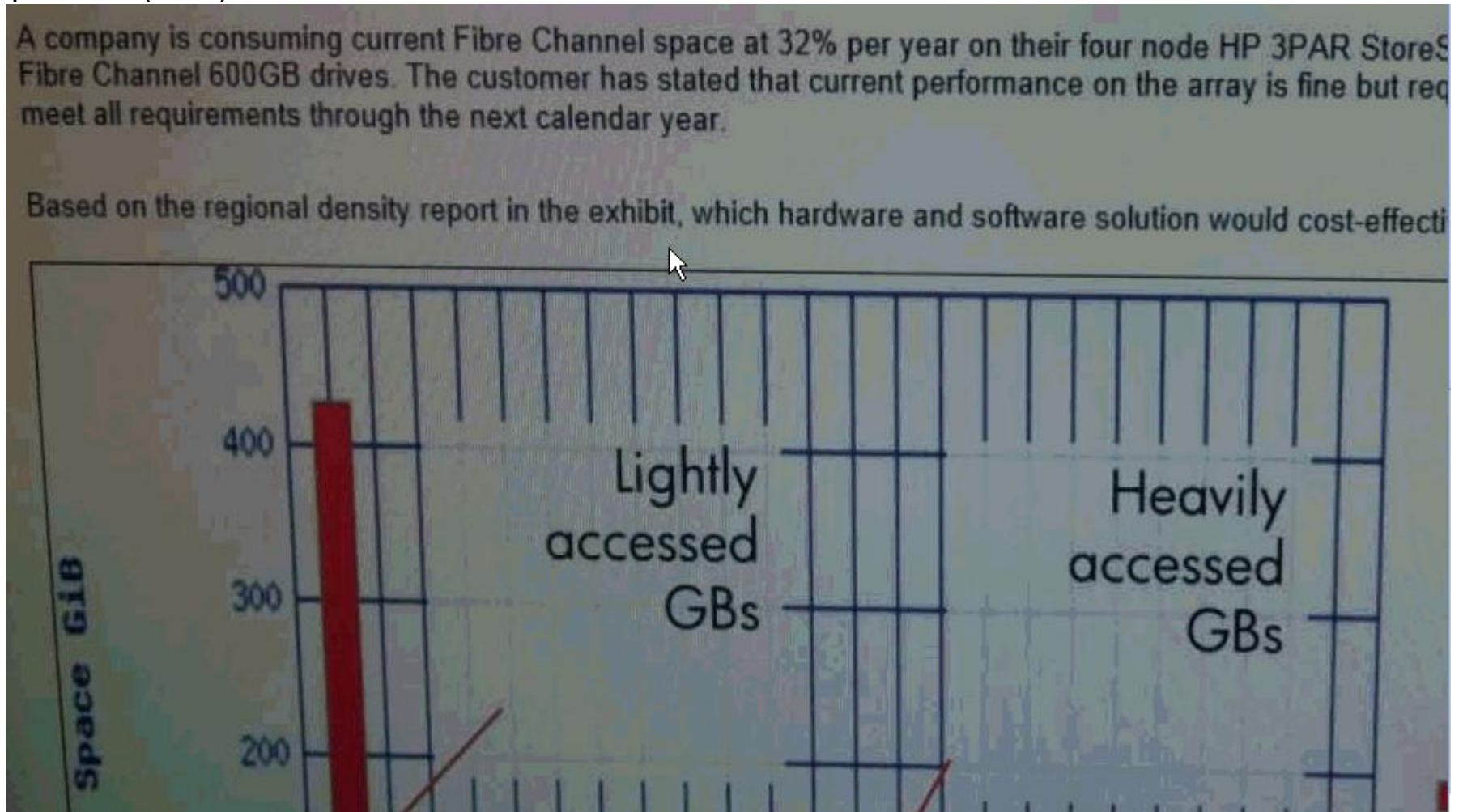
Explanation

Explanation/Reference:

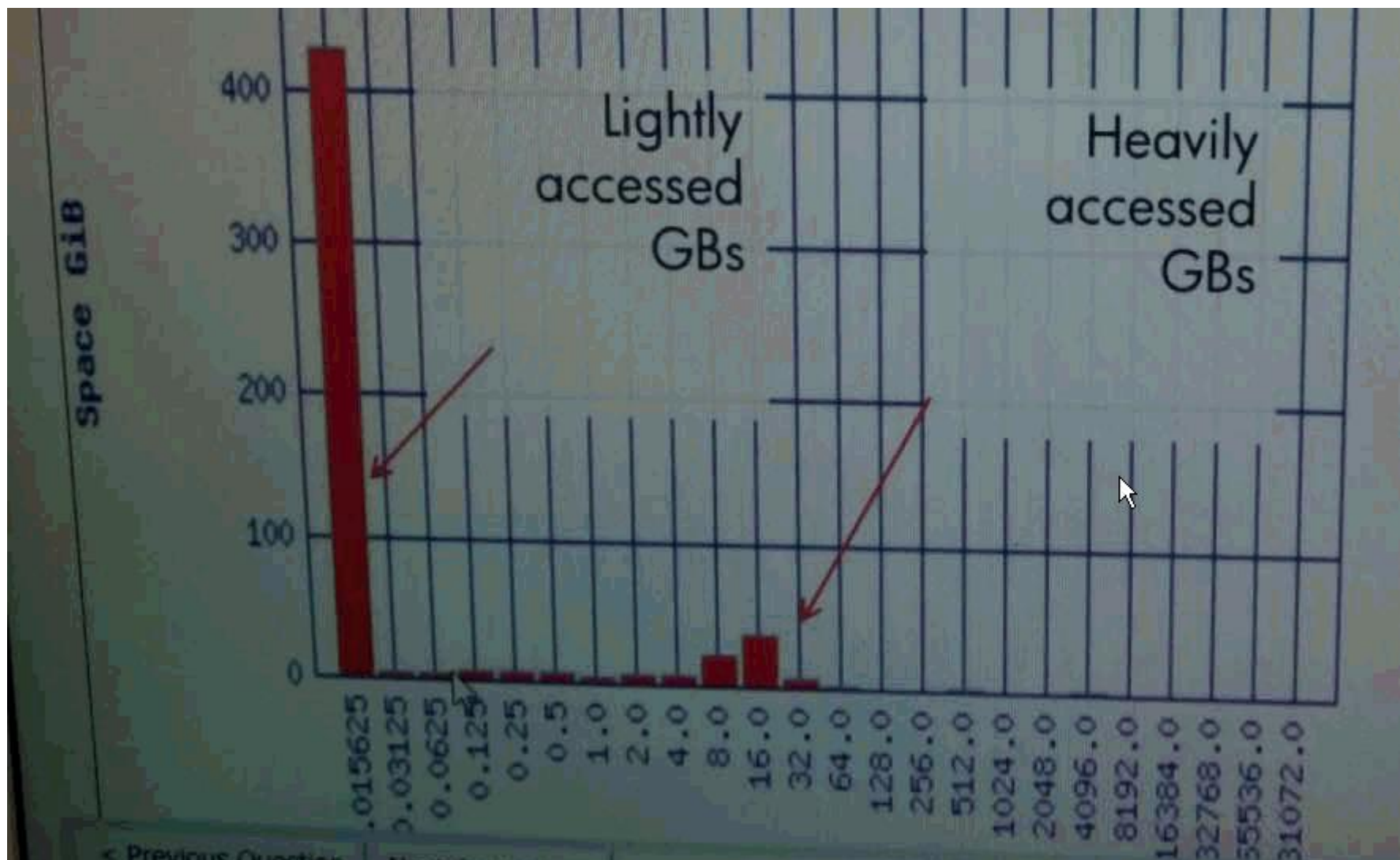
QUESTION 16

Based on the regional density report in the exhibit, which hardware and software solution would cost-effectively meet the customer requirement?

question16-a (exhibit):



question16-b (exhibit):



- A. Upgrade with (128) 600 GB driver to maintain equal volume distribution and best overall performance
- B. Upgrade with (16) 100 GB SSD for a performance boots on critical volumes and (132) 600GB FC driver, and eight additional chassis for a larger Raid set size and better utilization
- C. Upgrade with (32) TB drives and Adaptive Optimization for capacity-specified data placement in each of the two possible tiers
- D. Upgrade with Adaptive Optimization, (8) 200GB SSDs and (64) 1 TB NL (SATA) drives for three balanced tier will ensure only 35% of performance is

derived from NL (SATA) drives.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

A company is running their parts inventory applications on an HP 3PAR F400 Storage system with NearLine (SATA) disk drives. These applications are currently using LUN utilizing a Raid 5 (7+1) NearLine CPG. The are having performance issues while compiling their monthly reports in a timely manner. HP 3PAR System Reporter indicates several high write I/O volumes during production runs.

What should the design team recommend o improve this performance?

- A. HP 3PAR Adaptive Optimization and a new RAID 1 CPG
- B. Snapshot to capture all writes to a RAID 1 CPG
- C. Thin provisioning to achieve a better distribution across all physical disks
- D. HP 3PAR Dynamic Optimization to move the high performance volumes to a new RAID 1 CPG

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Chunklet-based RAID

HP 3PAR StoreServ incorporates several enhancements over conventional storage arrays. By making more effective use of all drive resources in the array, these enhancements allow higher performance with less hardware, which leads in turn to cost reduction. HP 3PAR StoreServ supports the following RAID types:

- RAID 10 (RAID 1)
- RAID 50 (RAID 5)
- RAID Multi-Parity (MP) or RAID 6

Common Provisioning Groups and RAID types

A Common Provisioning Group (CPG) is a virtual pool of logical disks that allows virtual volumes to share its resources and allocate space on demand. A CPG can contain Fully-Provisioned Virtual Volumes and Thinly-Provisioned Virtual Volumes (TPVVs) that draw space from the CPGs logical disk pool. Logical disks are widely striped across all the available physical disks of the same type, by using chunklets from all the physical drives.

Dynamic Optimization: tuning volume configurations

HP 3PAR Dynamic Optimization Software is an optional product that allows the underlying characteristics of a volume to be changed transparently and without disruption of service. Drive type,

RAID level and configuration, and high availability options can all be changed simply, easily, and non-disruptively. Unlike traditional arrays, where a poor initial choice can be difficult and/or costly to change, Dynamic Optimization allows changes to be made easily.

Dynamic Optimization also makes it easy for IT personnel to adapt to the changing needs of a modern, dynamic computing environment. For example, a previously high-priority project that used RAID 1 on high-performance Fibre Channel disks could be moved to more cost-effective RAID 5 storage on SATA disks.

Another use of Dynamic Optimization is to redistribute volumes after adding drives to an HP 3PAR Utility Storage array. Using Dynamic Optimization, existing volumes are autonomically striped across existing and new drives for optimal volume performance after capacity expansions. The increase in the total disks for the provisioned volume contributes to higher performance.

Question: Note: **HP 3PAR F400 Storage system with NearLine (SATA) disk drives"**

Adaptive Optimization: autonomic sub-volume tuning

HP 3PAR Adaptive Optimization Software is a fine-grained, policy-driven, autonomic storage software solution that delivers service level optimization for enterprises and cloud datacenters at the lowest possible cost while increasing agility and minimizing risk. Adaptive Optimization analyzes performance (access rates) for sub-volume regions, then selects the most active regions (those with the highest I/O rates) and uses the proven sub-volume data movement engine built into HP 3PAR InForm Operating System Software to autonomically move those regions to the fastest storage tier. It also moves less active regions to slower tiers to ensure space availability for newly-active regions.

Traditional storage arrays require the storage administrator to choose between slow, inexpensive storage and fast, expensive storage for each volume—a process that depends on the storage administrator's knowledge of the application's storage access patterns. Moreover, volumes tend to have hot spots rather than evenly-distributed accesses, and these hot spots can move over time. Using Adaptive Optimization, an HP 3PAR array configured with SATA disks plus a small number of Solid State Drives (SSDs) can approach the performance of an all-SSD configuration at little more than the cost per megabyte of SATA-based storage, adapting autonomically as access patterns change.

HP 3PAR Dynamic Optimization and Adaptive Optimization Software can be used to make this change on active volumes without any downtime or interruption. Dynamic Optimization tunes entire volumes with minimal performance impact to the array. Adaptive Optimization provides even finer-grained tuning, moving sub-volume regions between storage tiers in response to changing performance.

QUESTION 18

A food manufacturing company has an existing HP 9200 Virtual Library System (VLS) and HP Data Protector environment. They currently backup approximately 15-20 TB of data daily an HP ESL tape library. They have a business requirement of all backup data being off-side within 24 hours and a data retention requirement of three months. The experience an average of 15% data growth per year. Due to future SAP project, data growth per year. Due to future SAP project, data growth is expected to increase by 50% in the next 12 months. The customers is looking at their long-term backup strategy and infrastructure to suport the data growth adnd business requirements.

Which solution meets the customer requirements?

- A. two HP StoreOnce 4420 Backups with Low Bandwidth Replication
- B. two HP StoreOnce 4220 Backups with Low Bandwidth Replication
- C. two HP StoreOnce B6200 Backups with Catalyst
- D. two HP StoreOnce 4220 Backups with Catalyst

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 19

Which IT factors support the customer in accelerating time to market? (Select two)

- A. optimized response times
- B. integrated systems that reduce redundancy
- C. 24x7 availability of applications
- D. centralized IT
- E. more efficient cost structures

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 20

A customer wants to align their IT structure from their desktop to their rapidly-growing Enterprise data centers. The need support in designing a long-term strategy. The HP design team wants to present a roadmap to migrate the existing traditional environment into a virtualized infrastructure.

Which HP strategy supports the customer roadmap and should be presented in the next meeting?

- A. HP Smart Grid
- B. HP Storage Essentials
- C. HP Converted Infrastructure
- D. HP Adaptive Enterprise

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 21

The customer wants to implement an HP StoreOnce solution for the environment shown.

You have been given the following information:

- Each branch office has approximately 100 GB of data.
- Philadelphia has approximately 2 TB data.
- Pittsburgh has approximately 1 TB data.
- All backup data will be replicated back to the data center in Pittsburgh.
- Costs should be kept to a minimum but allow for the possibility of adding three more sites.

When designing the solution, which factor needs to be considered?

- A. The maximum replication target is below 12
- B. The number of source backup streams is below 32
- C. The minimum bandwidth for replication of an HP StoreOnce system is 2 Mbps
- D. The maximum data store size is below 2 TB.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

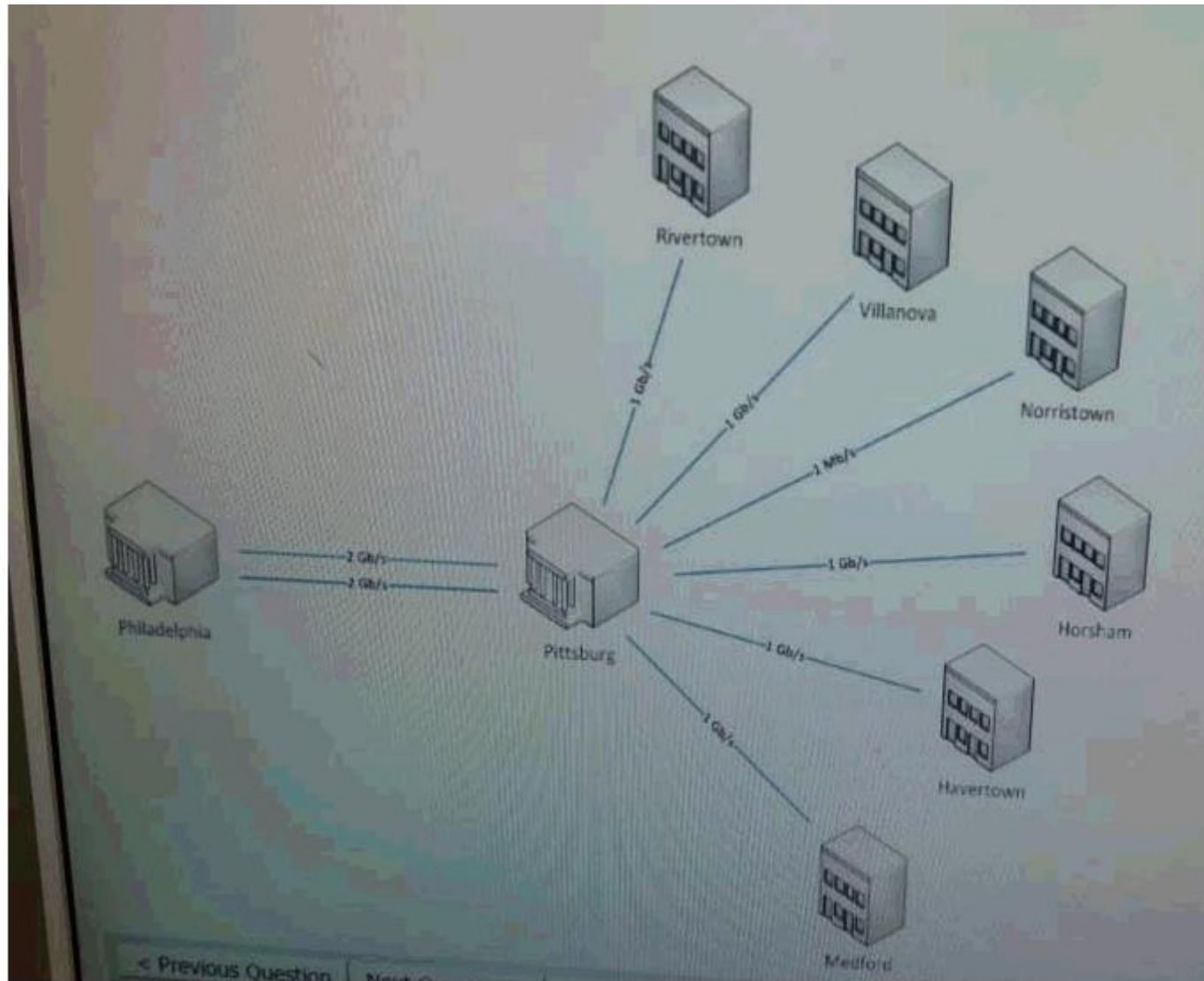
NOT CONFIRM BOOK

QUESTION 22

A client asks you to demonstrate the capabilities of an HP 3PAR StoreServ 7000 Storage array.

Which tool should you use?

Exhibit:



- A. SAN Connection Manager
- B. SAN Network Advisor
- C. InForm Management Console
- D. Command View Simulator

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 23

Which HP Service tool performs an operating system binary event log analysis?

- A. ISEE
- B. WEBES
- C. RISS
- D. OSEM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Web Based Enterprise Services

WEBES is a tool suite aimed at preventing or reducing your system's down time. The tool suite has the following components:

SEA (for operating system binary event log analysis).

If you have a warranty or service contract with HP you are entitled to these tools free of charge. You must, however, upgrade the tools at least once a year, because the software expires after one year

<http://www8.hp.com/us/en/support/svctools/webes.html>

QUESTION 24

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 2Port 16Gb 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 license to vSphere Enterprise.
- B. Modify the HP SN6000B 48/48 switches to 48/24 switches.
- C. Modify the HP SN6000B 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: CD

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 25

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

- A. HP ESL Tape Libraries with LTO3 tape drives.
- B. HP EML Tape Libraries with LTO4 tape drives.
- C. HP ESL Tape Libraries with SDLT 600 tape drives.
- D. HP VLS900 Virtual Libraries with LTO4 tape emulation.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 26

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

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 27

A customer storage infrastructure consists of eight HP StoreVirtual 4000 nodes in a cluster, connected to an HP 2910-24G al 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 ne 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: AB

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 28

A customer plains to replace their storage array with an HP 3PAR StoreServ 10800 Storage System. This array stores sensitive data and must be highly available. The solution must comply with all legal requirements for securing sensitive data.

Which level of service you recommend for the new HP 3PAR StoreServ array?

- A. Support Plus 24
- B. Support Plus 24 with Data Media Retention
- C. Proactive 24 with 6-hour CTR
- D. Critical Service with Data Media Retention

Correct Answer: C

Section: (none)

Explanation

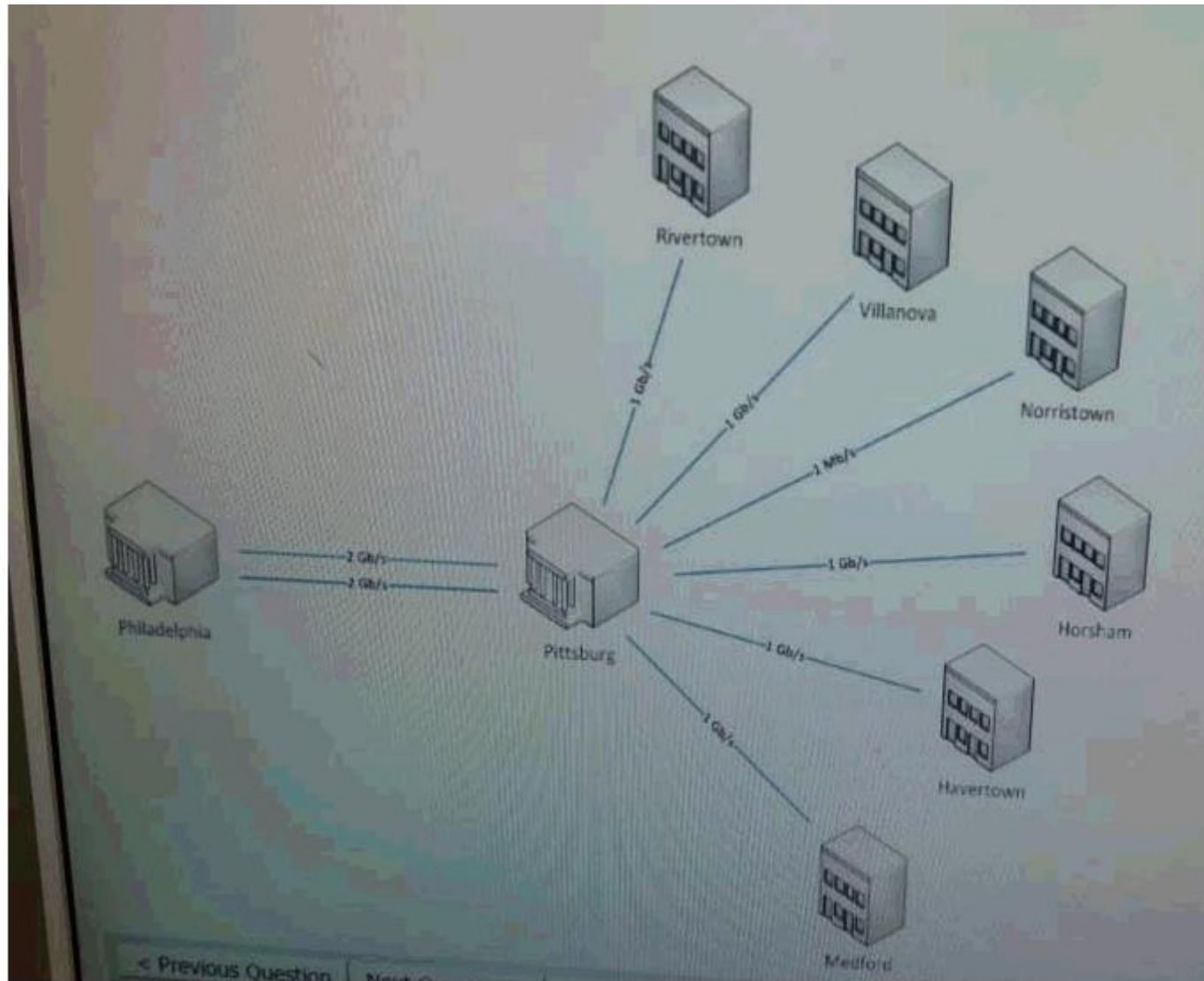
Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 29

The customer wants to implement an HP StoreVirtual solution for the environment shown. The Storage requirements dictate that the solution must have four nodes per site. What needs to be considered when designing the solution?

Exhibit:



- A. The latency on the link
- B. A failover manager required on both sites
- C. 200 MB/s bandwidth per storage nodes pair required
- D. The type of data being replicated

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 30

B-series switches with Access Gateway mode enabled provide connectivity to other switches that support

Which feature?

- A. VSAN
- B. NPIV
- C. FCIP
- D. LSAN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 31

During a customer proposal meeting for a 900 TB HP 3PAR StoreServ 10800, you discover an opportunity to address the lack of disaster recovery for two very critical applications that both require approximately 90 TB of usable storage each. The customer is considering a competitive disaster recovery (DR) solution to meet this requirement in a more cost-efficient manner than a second array.

Which HP 3PAR StoreServ architectural feature should you position to address this customer need?

- A. Specify an HP 3PAR StoreServ Synchronous Long Distance configuration utilizing an HP 3PAR StoreServ 7200 synchronous configuration for the best possible RPO and RTO.
- B. Highlight the benefits of the HP 3PAR unified architecture and propose a minimally configured HP 3PAR StoreServ 7200 to provide a cost-effective disaster recovery (DR) solution.
- C. Propose an HP 3PAR StoreServ solution that highlights the benefits of duplicated storage
- D. Propose a second HP 3PAR StoreServ 10400 with a 250 TB replication license to cost-effectively meet the disaster recovery (DR) requirement.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 32

An IT Operations Director of a large investment bank requests a meeting with the HP Account Manager and the Solution Architect. During the meeting, the IT Operations Director reports that there will be a 10% reduction in the investment bank's operations staff, which currently provides help-desk services and first level technical support for 400 U.S. customer banks. HP Professional Services provides support for the investment bank's New York and San Francisco data centers, which have HP 3PAR StoreServ 10000 Storage Systems attached to HPUX-based HP Integrity Superdomes. The investment bank's 400 customer bank use HP EVA P6400 storage attached to an HP Blade Systems with Virtual Connect FlexFabric. Now, the investment bank needs to add proactive monitoring and analysis.

What should the HP Account Manager and Solution Architect do to help the IT Operations Director address these challenges? (Select two)

- A. Discuss the business benefits of the existing HP EVA 6400 install base using HP Insight Remote Support Advanced.
- B. Demonstrate the value of HP's Mission Critical Advantage Services.
- C. Prepare HP Consulting Services to evaluate the investment bank data center SAN monitoring and firmware management environment
- D. Modify the management framework of the investment bank data center infrastructure with HP Systems Insight Manager and HP Insight Remote Support Standard.
- E. Recommend the placement of the HP EVA 6400 with the HP 3PAR StoreServ 12000 Storage System.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 33

A customer requires a storage solution with the ability to easily align data placement with in appropriate array tiers in order to reduce costs.

Which description of HP 3PAR StoreServ Dynamic Optimization capabilities is accurate for this customer?

- A. Non-disruptive conversion from frequently-accessed data in a fully provisioned storage tier to a thinly provisioned storage tier
- B. Automatic RAID-level alignment for all busy volumes after array capacity or controller upgrades
- C. Automatic placement based on volume access patterns, tier capacity settings, and pre-determined optimization schedules.
- D. User-initialized volume migration to the best tier, based on application needs or historical array performance analysis.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 34

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 workstation. 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 Ultimatium 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 workload's
- C. Inconsistent Oracle data caused by array snapshots.
- D. Capacity bottlenecks caused by duplicated data blocks.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 35

An insurance customer is planning to purchase an HP StoreVirtual SAN to support their large document management repository. They want to utilize Network RAID 6 to protect against multiple failures. What is the minimum number of nodes that must be included in the proposal to support this requirement?

- A. 3
- B. 4
- C. 5
- D. 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK B or C

QUESTION 36

A customer is concerned about backup data growth and maintaining or improvising restore service level. The current environment consist 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 provide increased backup storage and improve backup retention and restore times.

What should be proposed?

- A. Configure client-side de-duplication in the backup software.
- B. Implement HP StoreEasy with block-level de-duplication.
- C. Upgrade the MSL Tape Library to LTO-5 tape drives
- D. Implement an HP StoreOnce Backup System

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 37

Which rule applies when designing a route 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: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 38

A customer in the financial needs full high availability and optional write performance of and HP StoreVirtual 4000 solution in case of a data center failure.

Which Network RAID level should you recommend?

- A. Network RAID 6
- B. Network RAID 10
- C. Network RAID 10+1
- D. Network RAID 10+2

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 39

NOT CONFIRM BOOK Your 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: BC

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 40

A medium-sized company with 300 users has a Fibre Channel-based storage infrastructure with two HP StoreServ 7000 storage arrays. Their user data is distributed on three HP ProLiant DL380 G5 servers with local-attached storage. They have asked for a solution to increase the availability of their File Service that will fit into their limited IT budget.

Which solution you recommend in your proposal?

- A. HP Virtual System for Microsoft

- B. HP StoreEasy 3830 Gateway Storage
- C. HP StoreVirtual VSA
- D. HP StoreAll 9300 Storage

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

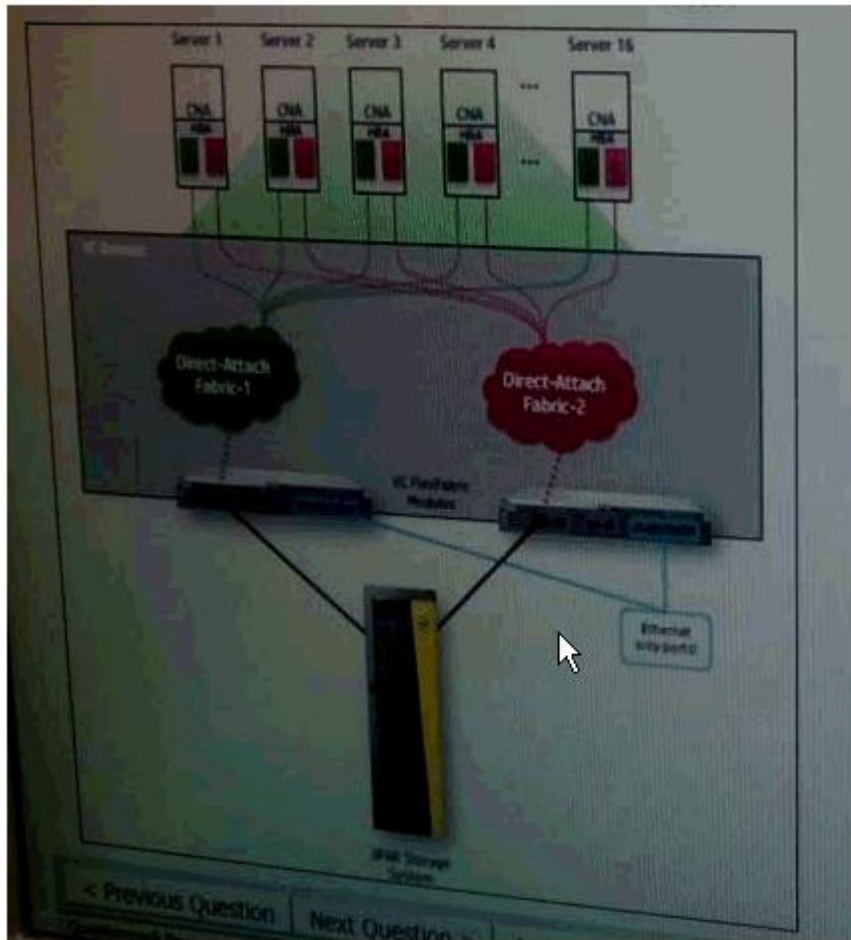
NOT CONFIRM BOOK

QUESTION 41

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 server and easy-to-implement Fiber 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.

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

Exhibit:



- 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

Section: (none)

Explanation

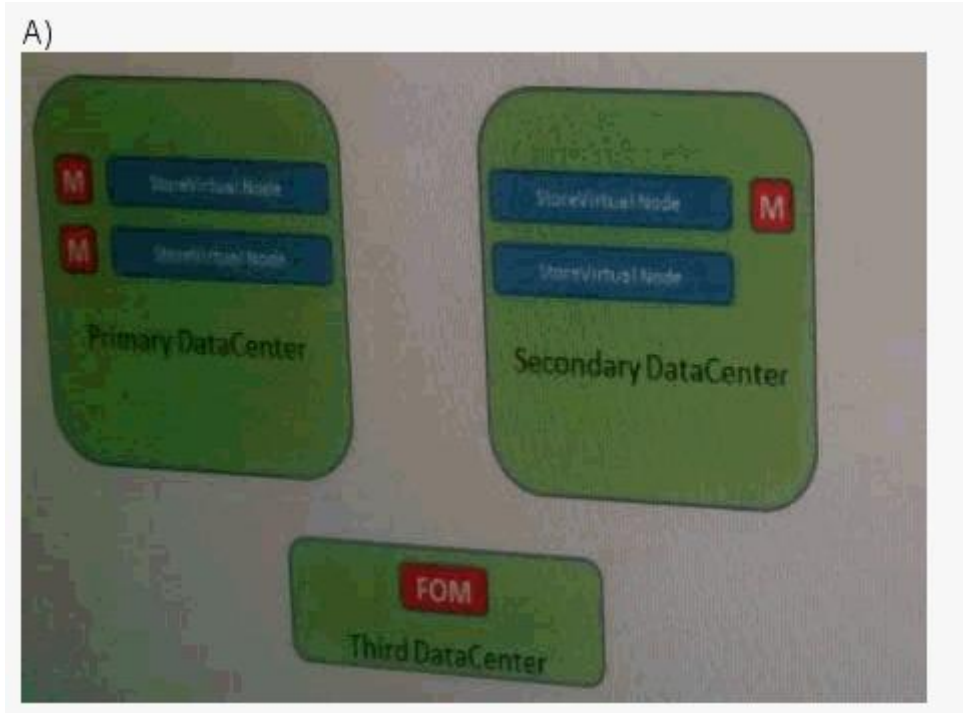
Explanation/Reference:
NOT CONFIRM BOOK

QUESTION 42

Your customer has the requirement for high availability automated data failover in their environment. You design an HP StoreV cluster. During the initial presentation you describe the process of the failover.

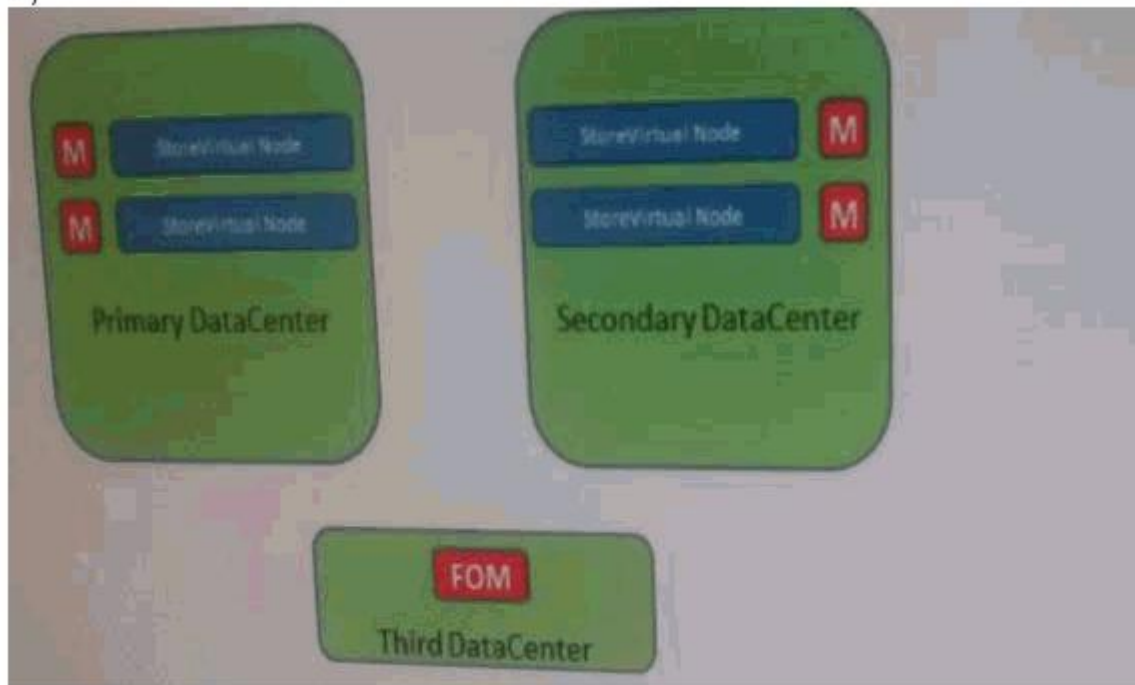
What is correct Manager (M) and Failover Manager (FOM) configuration to fulfill the customer requirements?

question42-a (exhibit):



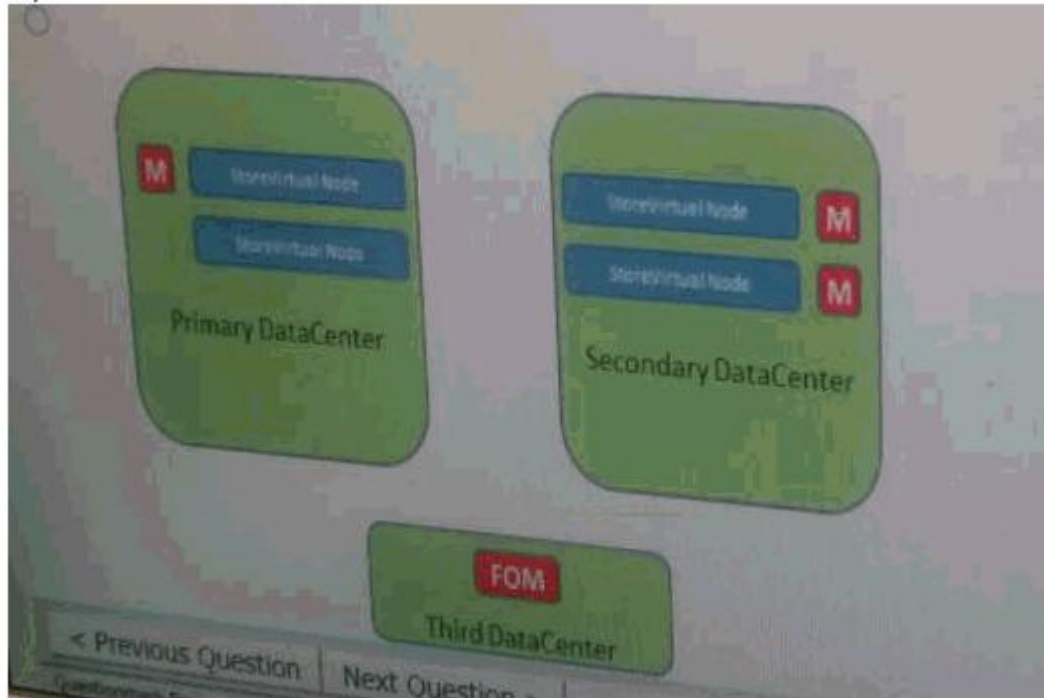
question42-b (exhibit):

B)



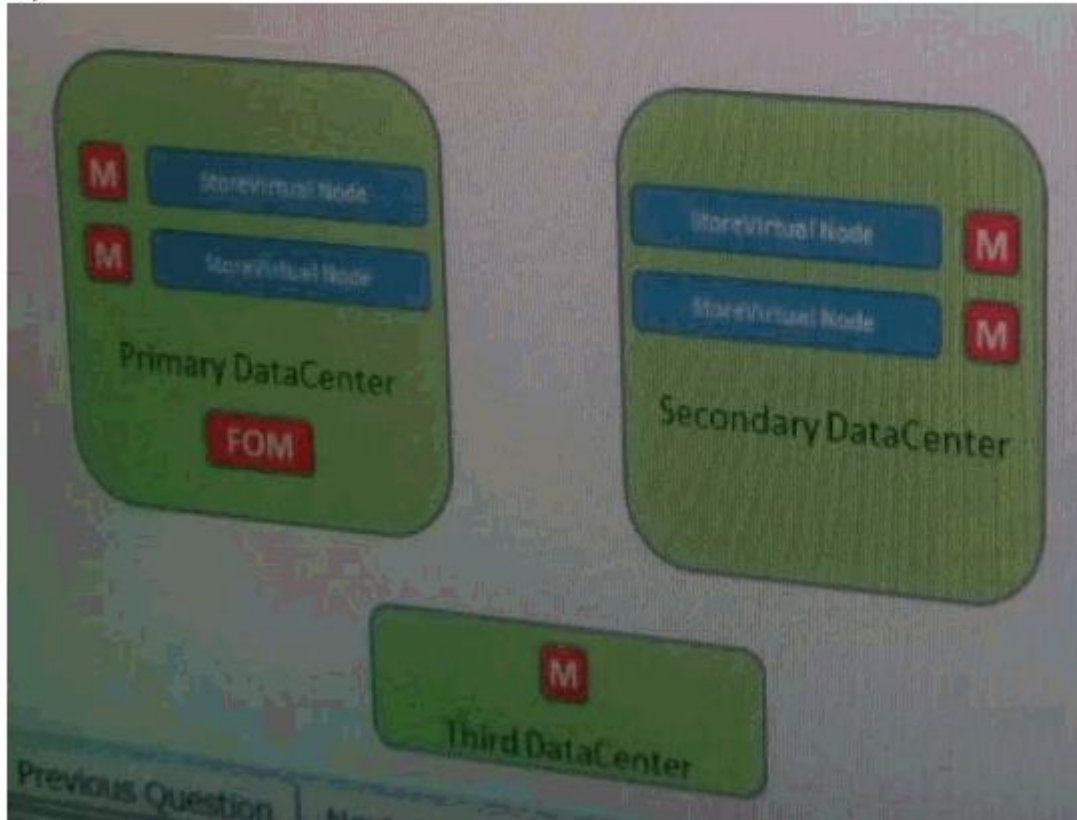
question42-c (exhibit):

C)



question42-d (exhibit):

D)



- A. Exhibit A
- B. Exhibit B
- C. Exhibit C
- D. Exhibit D

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 43

A customer plans to centralize and virtualize their user desktop using VMware View Solution for 300 users. Their primary focus for this project is efficient backups. The customer design includes HP Proliant BL460C Gen8 servers and an HP StoreVirtual solution. The customer needs an environment that uses a single management console for all backup and replication activities and the ability to implement federated deduplication. In your design, you want to add an HP StoreOnce B6200 Backup solution.

Which HP StoreOnce emulation supports the customer need?

- A. VTL
- B. StoreOnce Catalyst
- C. Enterprise Tape Library
- D. NAS Share

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 44

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

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 45

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 on 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 3PAR Host Explorer to verify current host configuration compliance specifications.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 46

How does the HP StoreVirtual DSM for Windows compare to the native MPIO provided by the operating system?

- A. It opens iSCSI connections to all StoreVirtual nodes
- B. It modified the iSCSI routing policies
- C. It creates iSCSI bond groups
- D. It changes iSCSI transfer block size

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 47

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

- A. CommVault Galaxy
- B. CA ARCserve
- C. Symantec Backup Exec 2013
- D. IBM TSM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:
NOT CONFIRM BOOK

QUESTION 48

A very large application service provider (ASP) is going through a major virtualization effort. After the initial meeting with the ASP team, your notes are:

- Customer objective is to virtualize their environment. Modernize and simplify their infrastructure.
- All servers are on HP Blade System c7000 virtual Connect 1/10-F and Virtual Connect FC modules, G5 physical blade servers. Lease is up.
- 48 blades require virtualization and NFS connections. Existing filer third party Lease is up to need more I/O and Scale.
- 12 blades are Clustered SQL Server. No virtualization on these blades required. Storage today is on new FC-base HP 3PAR StoreServ 7400 FC.

As you develop a proposal, what should be part of the design to meet the customer goals? (Select two)

- A. Add an HP StoreEasy X3830 Gateway rack mount server to the front end of the 3PAR
- B. Add an HP StoreEasy X5000 rack mount server to the front end of the 3PAR
- C. Add new HP Blade System c7000s and Gen8 blades with Virtual Connect Flex 10
- D. Add new HP Blade System C7000s and Gen8 blades with HP Virtual Connect FlexFabric.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:
NOT CONFIR BOOK

QUESTION 49

Which HP Storage solution aligns with the HP federated storage approach?

- A. HP StoreSure
- B. HP StoreAll
- C. HP StoreEasy
- D. HP StoreVirtual

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:
NOT CONFIRM BOOK

QUESTION 50

A customer has a B-Series SAN and wants to add an H-Series switch.

Which feature and protocol achieve this?

- A. Transparent Router (TR), N_Port ID Virtualization (NPIV)
- B. NR - SPIV
- C. LR - RPIV
- D. SR - TPIV

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 51

A customer has an HP StoreVirtual six node cluster. The HP StoreVirtual system is presenting 30 Network RAID 10 LUNs to an application server. The application server has HP DSM for MPIO and HP Application Aware Snapshot Manager installed. The customer wants to add four more nodes to the cluster.

What must be considered when adding the four additional nodes?

- A. There is a maximum number of eight nodes per cluster.
- B. Network RAID 10 drives need to be converted to Network RAID 10+1
- C. HP DSM for MPIO will not support the new configuration
- D. All data needs to be backed up and restored.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 52

Your customer is rapidly expanding and wants to migrate from direct-attached storage to an array-based storage platform.

Which benefit can be achieved by moving to the HP 3PAR StoreServ platform?

- A. reduces administration time by up to 75%
- B. reduces SAN equipment costs
- C. reduces power costs by 75%
- D. cuts disk capacity requirements by 50% or more

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 53

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

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 54

A solution architect from an HP authorized reseller calls you with a need to configure HP Blade System and an HP StoreServ 7400 Storage System. He needs a bill of materials and a budgetary quote (List Price) for his colleague.

Which tool do you recommend he use?

- A. HP Storage Sizing Tool
- B. HP Single Point of Connectivity (SPOCK)
- C. HP SalesBuilder for Windows

D. HP Storage Product Selector

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

<http://www.tools.hp.com>

<http://sbw.cup.hp.com>

Features

SBQWB - Configuration and quotation module

Knowledge Base Files - Configuration database rules

Price book files - The HP list price and contractual files

Discount files - Channel partner-specific discount information

SalesBuilder for Windows has two main components: the Configurator and the Quoter.

QUESTION 55

Which statement is accurate when an HP Blade System customer is interested in the HP Virtual Connect FlexFabric Flat SAN feature?

- A. Virtual Connect fabric-attached and direct-attached SAN fabric can not be mixed on the same Virtual Connect domain.
- B. When using the direct-attach mode, participating uplinks must be directly connected to an HP 3PAR StoreServ Storage System
- C. The direct-attach mode supports connecting HP Enterprise Virtual Array and HP StoreServ Storage
- D. Virtual Connect Enterprise Manager license are required.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 56

A company currently has 800 virtual machines with 300 TB data. Seventy percent of the servers are at 85% idle. The customers needs to reduce the overall costs of present and future storage upgrade requirements by at least 25% while reducing power and cooling costs.

What should be done to properly size each tier in an HP StoreServ Adaptive Optimization multi-tier solution?

- A. Establish capacity radios in SSD and FC tiers to meet baseline performance requirements.
- B. Run the 3PAR System Reporter to ensure sufficient regional density I/O in each tiers
- C. Configure maximum IOPS for the NearLine tier to reduce costs by the desired percentage

D. Estimate the amount of 1 TB license required for automatic tier movement.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 57

You are responding to a request for proposal (RFP) for a new HP 3PAR StoreServ array. The company decision-market has asked you to justify the cost of the array.

Which benefits of the Alinean ROI Analysts should be included in the business case to justify the cost of the array (Select three)

- A. regulatory documentation
- B. payback period
- C. competitive data
- D. internal rate of return (IRR)
- E. value proposition
- F. architecture of the array

Correct Answer: BDE

Section: (none)

Explanation

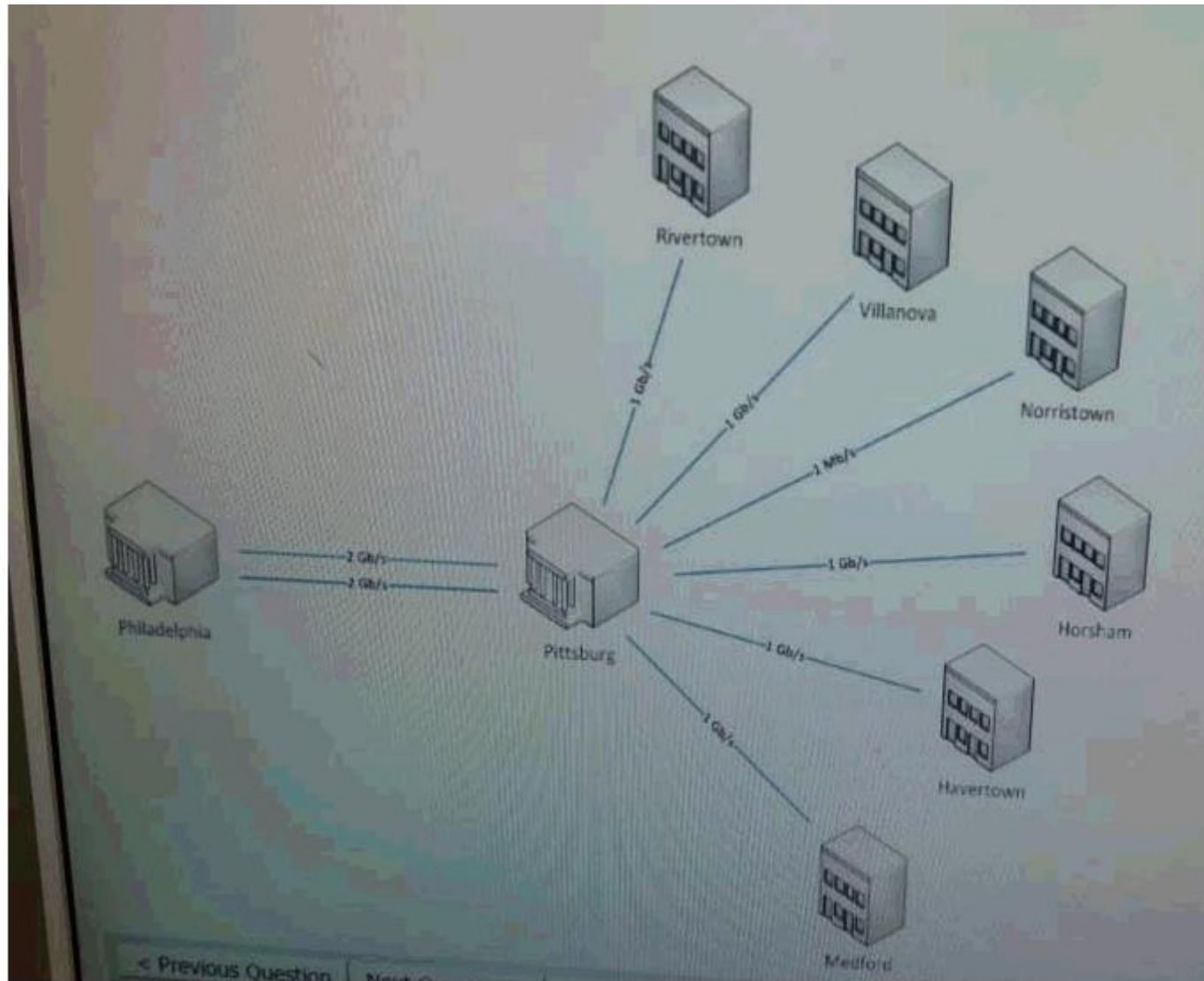
Explanation/Reference:

NOT CONFIRM BOOK

QUESTION 58

LICENSE DEDUPLICATION

Exhibit:



- A.
- B.
- C.
- D.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

NOT CONFIRM BOOK

LICENSE DEDUPLICATION