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Vendor:HP

Exam Code:HP0-J67

Exam Name:Architecting Multi-site HP Storage
Solutions

Version:Demo

QUESTION 1

You propose an HP 3PAR StoreServ Storage solution to your customer. The customer wants to know what sets this solution apart from the competition and why they should purchase it.

What are unique features of an HP 3PAR StoreServ compared to competitor block-based arrays? (Select two)

- A. Hardware implemented Thin Provisioning
- B. Wide-striping of data over many physical disks
- C. Linear performance scalability due to a custom ASIC
- D. Block storage functions facilitated by software emulation
- E. Controller functions based on a software implementation of RAID

Correct Answer: AC

QUESTION 2

Refer to the scenario.

During your presentation, the customer suggests using Thin Provisioning on the existing EVA to alleviate the capacity issue. What prevents HP EVA Thin Provisioning from being a valid solution?

A leading automotive technology company wants to increase the performance and capacity of the storage infrastructure that supports the design and manufacture of its line of Formula 1 racing cars. The company is also interested in safeguarding its mission-critical data and eliminating the threat of business disruption. Due to the massive engineering and technical effort required to create a new race car design and to enable regular delivery of upgraded parts to the race track while maintaining a competitive edge, it is necessary to have advanced applications running on a high-performance IT infrastructure. The company operates out of two data centers. The centers support a Plant Lifecycle Management database, an Enterprise Resource Planning (ERP) system, and various trackside systems to set up the race car and aid race strategy. In addition, the centers run applications for Computer-Aided Design (CAD) Computer-Aided Manufacturing (CAM), and Computational Fluid Dynamics (CFD) packages. The company has deployed Oracle and SQL databases, VMware virtual machines, email, and all other applications on an HP 6400 Enterprise virtual Array (EVA). The EVAs automatically replicate between the two data centers to guard against failure. The EVAs are aging, applications are more sophisticated, data volumes have grown exponentially, and bottlenecks in the storage system are now having a significant effect on the performance of the simulation and analysis tools that are vital to the company's competitive position. The data storage problem has reached a point where the company is forced to store primary data at the secondary site causing the loss of their disaster recovery capability.

The company's top five IT Improvement goals are:

- Reduce complaints about storage system availability.
- increase support for sophisticated design and manufacturing applications.
- Provide a robust replication capability between data centers.
- increase storage utilization while deploying additional capacity.
- Simplify operations during peak workloads.

Moreover, the company's top three business benefit goals are:

- Ensure rapid data retrieval to aid in quick decision making.
- Protect mission-critical data and ensure business continuity.
- Recover costs from existing infrastructure, thus providing increased IT funds for additional projects.

The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

- A. A minimum of 20% free space is required to convert the virtual disks.
- B. DR groups must be suspended prior to conversion.
- C. Thin Provisioning is only available on HP EVA P65xx.
- D. DR groups cannot contain Thin Provisioned virtual disks.

Correct Answer: A

QUESTION 3

A customer plans to migrate data from an HP EVA4400 to an HP 3PAR StoreServ 7000. The customer has VMware vSphere 5 that uses the HP EVA4400.

How can the customer migrate the VMware storage without disruption?

- A. By configuring load-balancing between storage systems
- B. By verifying the EVA is running a supported firmware
- C. By upgrading the VMware vSphere version
- D. By configuring multipathing between storage systems

Correct Answer: D

QUESTION 4

A customer plans to purchase an HP 3PAR StoreServ Storage solution. The system will experience heavy use of virtual copies for backup and rollback purposes. Additionally, the customer will use three tiers of storage in their system, but the snapshots must not use capacity from the SSD tier.

What is a best practice for snapshot space allocation?

- A. The CPG for the snapshots must be different from the CPG for the source volume.
- B. The snapshots must reside on the same CPG as the source volume.
- C. Virtual volumes managed by an Adaptive Optimization policy can only be copied as full copy clones on a separate CPG

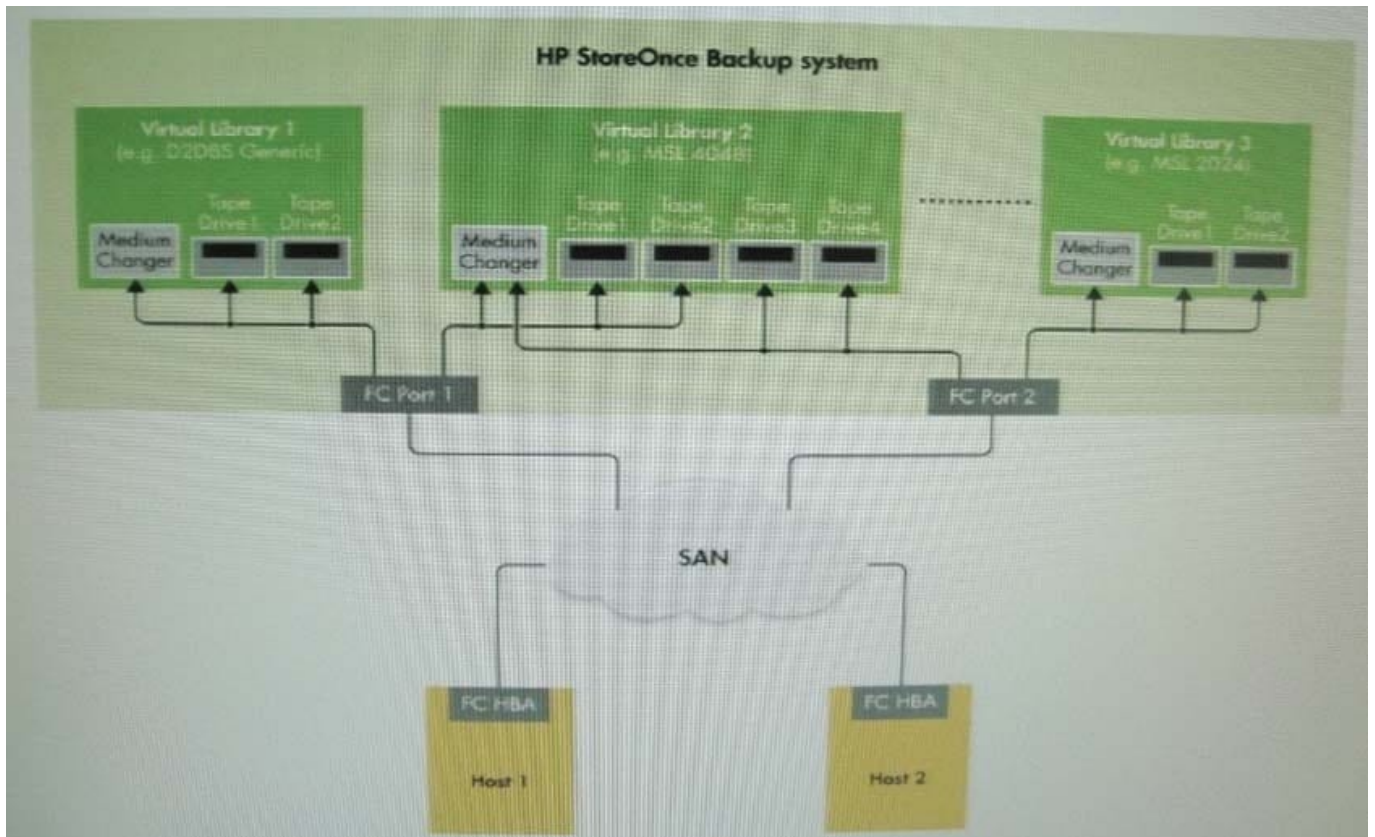
D. Snapshots of virtual volumes residing on tiered storage cannot be created.

Correct Answer: A

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QUESTION 5

Refer to the exhibit:



How does the cabling scheme ensure high availability for Virtual Library 2?

- A. The Virtual Tape Libraries are spread across both Fibre Channel ports and offer load balancing across the SAN.
- B. The medium changer and drives are connected redundantly to the Fibre Channel ports of the system and the SAN.
- C. The drives are presented through both Fibre Channel ports of the HP StoreOnce Backup System.
- D. The medium changer is connected redundantly, and the drives, by default, are connected 50% to each port.

Correct Answer: D

QUESTION 6

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Further investigation reveals that the data centers are 175 meters apart with two diversely-routed 50 micron multi-mode fiber optic cables. The solution requires 16 Gbs of bandwidth between sites. Which additional information is needed from your customer to ensure their interconnect goals are met?

- A. Cable ISO classification type
- B. Cable buffering type
- C. Cable termination type
- D. SFP laser wavelength

Correct Answer: A

now using lasers with multimode fiber-optic cable. ANSI/TIA-568-C.3 recognizes two types of multimode optical fiber cable:

- ◆ Two-fiber (duplex) 62.5/125-micron (aka OM1 per ISO 11801)
- ◆ 50/125-micron multimode fiber-optic cable

Within the 50/125-micron multimode fiber-optic classification, there are two options:

- ◆ A standard 50-micron fiber (aka OM2 per ISO 11801)
- ◆ A higher bandwidth option known as 850nm laser-optimized 50/125-micron (aka OM3)

ANSI/TIA-568-C.3 recommends the use of 850nm laser-optimized 50/125-micron (OM3) since it has much higher bandwidth and supports all Gigabit Ethernet applications to the longest distances.

QUESTION 7

The customer has two HP 3PAR StoreServ 7000 Storage systems split between two data centers. Used capacity of each storage system is 10 TB of data. The replication between data centers is performed via Ethernet/IP, and the replication technology used will be asynchronous. The maximum RPO is 30 minutes, and the daily change rate of the customer data is a maximum of 0.5%, which is created evenly throughout the day.

What is the required minimum bandwidth between the data centers for replication?

- A. 40 Mb half-duplex
- B. 20 Mb full-duplex
- C. 5 Mb half-duplex
- D. 10 Mb full-duplex

Correct Answer: D

$10\text{TB} * 0.5\% / (3600 * 24 / 0.5) = 0.303 \text{ MB/s} = 3 \text{ Mbps per datacenter (full duplex!!!)}$.

QUESTION 8

A backup administrator has an HP D2D4112 G2 Backup System, which was upgraded to 3.x software and uses HP Data Protector 7.01. The administrator is ready to implement HP StoreOnce Catalyst.

What should the administrator purchase so the existing infrastructure and software investment is maximized?

- A. HP Catalyst license for the existing HP StoreOnce system
- B. HP Data Protector license for Catalyst
- C. A new HP StoreOnce 4220 Backup System with HP Catalyst license

D. A new HP StoreOnce B6200 Backup System with HP Catalyst license

Correct Answer: A

QUESTION 9

A customer experiences a sudden loss in write performance on the HP 3PAR StoreServ array on the primary site. Reads are not affected, but writes slowed down significantly. What should you advise the customer to check first in order to solve the issue?

- A. replication type (if set to asynchronous periodic, set it to synchronous)
- B. Fibre Channel infrastructure and optical cabling for malfunctioning components
- C. host multi-pathing software (update it to the newest available version)
- D. replication type (if set to synchronous, set it to asynchronous periodic)

Correct Answer: D

QUESTION 10

A customer with a B-Series fabric needs to establish FC-IP connectivity between their primary data center fabric and DR data center fabric to enable replication. However, they are concerned that fabric instability issues in the DR fabric will cause issues in their production fabric.

Which HP storage solution should you recommend?

- A. HP C-Series MDS 9222i Multiservice Modular Fabric Switch
- B. HP 1606 Extension SAN Switch
- C. HP SN6000 FC Switch
- D. HP MPX200 Multifunction Routed

Correct Answer: D

QUESTION 11

A company with a first-generation deduplication appliance is migrating to an HP StoreOnce 6200 Backup System. After migration, what will be the size of the deduplication block?

- A. 4 kb
- B. 8 kb
- C. 16 kb
- D. 32 kb

Correct Answer: A

QUESTION 12

Refer to the scenario.

A large publicly-traded motion picture exhibitor that is a leader in digital and 3D cinema deployments operates 233 theaters and more than 2,200 screens in small to mid-sized communities in 35 states around the United States. They rely on

MS Exchange Server 2010 for email. MS SQL Server 2010 for analyzing data about movies and theater-goers, and MS Excel 2010 for crunching numbers.

The company runs nightly incremental backups and a full weekly backup that consists of close to 7 TB of data which takes up 72 hours to complete. The quarterly backups add an additional 7 TB of data. Tapes are inventoried and transported

from the main data center to the disaster recovery site 150 miles away. The process of transporting tape cartridges to and from the Disaster Recovery site requires hours of daily work.

The company currently relies on an aging robotic tape library and a process that takes the nightly backup tapes offsite every morning. Additionally, the company keeps an inventory, and if a restore is necessary they have to retrieve the tapes

from the DR site and transport them to the main data center site They have a 7 year data retention plan, and the tapes are expensive and not always reliable. Given the company's current system, if a full weekly backup fails over a weekend,

the re-run could take up to 10 hours, even if just one job failed.

The company has deployed a virtualized server infrastructure which runs VMware vSphere 5 on HP BladeSystem c7000 enclosures and BL460c servers interconnected with HP Virtual Connect Flex-10 10Gb Ethernet Modules as well as

several HP ProLiant DL380 servers. The company's top four IT improvements goals are as follows:

- replacing the aging robotic tape library
- enabling replication of backed up data from the main data center to the disaster recovery site (150 miles)
- retaining more backup data in smaller disk space
- increasing efficiency reliability, and ease of system administration Moreover the company's top three business benefit goals are as follows:
 - increased confidence in disaster recovery
 - minimal disruption by backups during regular business hours
 - improved management of external audits

The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

Which additional information do you require to validate the customer DR strategy? (Select two.)

- A. WAN latency
- B. Data structure
- C. Data change rate
- D. Number of hosts
- E. Distance between data centers

Correct Answer: AC