

# HP0-J66<sup>Q&As</sup>

HP Storage Migration

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## QUESTION 1

A customer uses HP 3PAK System Reporter and Adaptive Optimization with an HP 3PAR StoreServ 10000 Storage System that runs HP 3PAR OS 3.1.1. The customer is planning to upgrade the storage system to HP 3PAR OS 3.1.2. The customer needs to use System Reporter and Adaptive Optimization on the storage system after the upgrade.

Which complications will the customer encounter after performing the upgrade? (Select two)

- A. System Reporter backups must be reconfigured
- B. System Reporter data does not migrate
- C. Adaptive Optimization is disabled
- D. System Reporter databases become corrupt
- E. Adaptive Optimization must be reconfigured.

Correct Answer: BC

B: Recreation of the AO configuration on the nodes is a manual process. There is no automated means of transferring AO configurations from System Reporter onto the HP 3PAR OS 3.1.2 system.

C: AO behavior continues unchanged for HP 3PAR OS 3.1.1 and earlier. For HP 3PAR OS 3.1.2 systems, Adaptive Optimization behaves as follows:

\*

AO configurations for HP 3PAR OS systems are allowed insofar as they are not deleted following an upgrade from HP 3PAR OS 3.1.1. However, these AO configurations are not executed by regionmover and are marked as inactive.

\*

Following an upgrade from HP 3PAR OS 3.1.1, AO configurations remain and can be used by administrators as a reference to recreate the AO configurations on the nodes.

Reference; 3PAR System Reporter 3.1 Software Release Notes

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## QUESTION 2

A flower distribution company is planning to redesign their web site and offer additional products and delivery services.

They expect a significant increase in web traffic and sales.

They want to ensure a quick response time and in some cases, provide same day delivery of an order.

This will put an increased demand on their existing IT environment. This environment consists of a small SAN, two C7000 blade chassis and a storage array

Which change to their environment is recommended?

- A. upgrade to larger disks in the storage array

- B. install additional disks in the storage array
- C. set up replication between the storage blades and the storage array
- D. install additional SAN switches

Correct Answer: B

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### QUESTION 3

A customer needs to replicate data from a remote location to an HP StoreOnce B6200 Backup. What should the customer consider when planning the replication?

- A. The HP D2D sizing tool should be used to size link speed and understand concurrency restraints.
- B. Concurrency control should be used if the replication is not run at the same times as backups and housekeeping jobs.
- C. Separate replication jobs should be created for each data type.
- D. Backups and housekeeping jobs should be run in the replication window.

Correct Answer: A

The replication best practices that apply to HP StoreOnce D2D Backup Systems are equally as valid for the HP B6200 StoreOnce Backup System. Best practices include:

\* Use the Sizing tool to size replication link speed and understand replication concurrency restraints.

Reference; HP B6200 Backup System, Recommended Configuration Guidelines

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### QUESTION 4

A customer is planning to implement an HP StoreVirtual 4330FC Storage System

Which type of cable do they need to connect the storage system to the fabric?

- A. SC Fibre Channel
- B. LC Fibre Channel
- C. iSCSI
- D. SAS

Correct Answer: A

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### QUESTION 5

A customer is planning to migrate a database to a new site. They need to create an extended SAN in a single fabric namespace by using a dedicated link over a distance of 200 km.

Which network protocol should they use to achieve this goal?

- A. FCIP
- B. iFC
- C. FCoE
- D. iSCSI

Correct Answer: A

FCIP connects Fibre Channel fabrics over IP-based networks to form a unified SAN in a single fabric. FCIP relies on IP-based network services to provide connectivity between fabrics over LANs, MANs, or WANs.

Note:

HP SAN extension technologies include:

\*

FCIP

(greater than 10 km to 20,000 km)

\*

FC-ATM

\*

FC-SONET

\*

WDM

(greater than 35 km to 100,000 km)

\*

Fibre Channel using long-wave transceivers

(10 km to 5 km)

## QUESTION 6

A customer's storage environment contains the following storage systems:

-

HP EVA6400 with 10 TB of storage

-

HP EVA4400 with 5 TB of storage

The customer uses fully provisioned volumes on the existing storage systems. They plan to migrate data to an HP 3PAR StoreServ 7000 Storage System.

What ensures that the volumes migrated from the EVA to the StoreServ 7000 are thinly provisioned?

- A. Remote Copy
- B. Online Import
- C. Recovery Manager
- D. Peer Motion

Correct Answer: B

EVA to 3PAR Online Import manages the migration of data from a source EVA storage system to a destination 3PAR storage system. Using EVA to 3PAR Online Import, you can migrate EVA virtual disks and host configuration information to a 3PAR destination storage system without changing host configurations or interrupting data access.

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## QUESTION 7

A customer with a Fibre Channel SAN needs to ensure that in-transit data is secure through the use of device authentication and encrypted secure key exchange.

Which Fibre Channel standard enables them to meet this goal?

- A. FC-PH
- B. FC-OE
- C. FC-CHAP
- D. FC-SP

Correct Answer: D

Fibre Channel Security Protocol (FC-SP) capabilities provide switch-switch and host-switch authentication to overcome security challenges for enterprise-wide fabrics.

Incorrect:

Not B: FCoE (Fibre Channel over Ethernet) is a storage protocol that enable Fibre Channel communications to run directly over Ethernet. FCoE makes it possible to move Fibre Channel traffic across existing high-speed Ethernet

infrastructure and converges storage and IP protocols onto a single cable transport and interface.

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## QUESTION 8

A customer is planning to migrate their master database to a remote location. Their network uses GbE for FCIP tunneling. Which Fibre Channel switch port interface must they use?

- A. EX\_Port
- B. E\_Port
- C. VEX\_Port
- D. VE\_Port

Correct Answer: D

\*

VE\_Port--Virtual E\_Port used with a GbE port for FCIP tunneling

\*

You can configure a Fibre Channel port as an F\_Port, FL\_Port, E\_Port, or EX\_Port (Fibre Channel routing), and configure a GbE port as a VE\_Port (FCIP) or VEX\_Port (FCIP with Fibre Channel routing).

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#### QUESTION 9

A storage administrator is migrating data from a third-party storage system to an HP 3PAR StoreServ 7000 Storage System. The administrator needs to ensure that certain hosts will be managed by only specific user accounts. What should be included in the designed solution?

- A. virtual domains
- B. logical volumes
- C. common provisioning groups
- D. Active Directory integration

Correct Answer: A

Note:

\* When used together with HP 3PAR Virtual Domains, Autonomic Groups allows multiple independent virtual domains to be grouped as a single logical entity to simplify storage administration while maintaining the integrity of individual virtual

domains. For example, backing up an autonomic domain group actually backs up all virtual domains in the group to a single backup server while still maintaining the security and isolation associated with each individual domain.

Incorrect:

Not C: The common provisioning group (CPG) is fundamental to administration and reporting of HP 3PAR StoreServ. It allows virtual volumes to share the CPG's resources and allocate space on demand. A CPG can automatically grow its

space through mapping the logical disk space.

CPGs pre-define many of the attributes a virtual volume will have when it is created. Some of these attributes include:

RAID level (for example, RAID5, RAID6, etc.)

RAID set size

Physical drive type

Drive speed

Availability (the level of hardware fault tolerance)

Other attributes

## QUESTION 10

A company has a first-generation deduplication appliance and is considering adding an HP StoreOnce 6200 Backup System to its environment. Which benefits can this company realize by deploying an HP StoreOnce 6200 Backup System? (Select two.)

- A. can scale up to 784 TB of usable storage
- B. federated non-disruptive data mobility between third-party systems
- C. deduplicates data anywhere without the need for rehydration
- D. performance throughput of 200 TB/hour
- E. automatic failover on couplet failure

Correct Answer: CE

The HP B6200 StoreOnce Backup System provides:

\*

Deduplication to drive more efficient storage of data

\*

Large device scalability to ensure every backup has access to devices and, so, reduce queuing time

\*

In-built low bandwidth replication for cost-effective copies of data offsite as part of a Disaster Recovery plan

\*

HP Autonomic failover (with appropriate ISV software) to allow backups to continue, even if a node in an HP B6200 StoreOnce Backup System fails.

\*

High scalability in terms of capacity, performance and replication to ensure the system grows as your business grows.

Incorrect: Not A: Capacity: 48TB Raw 32TB Useable Scalable to 192 TB Raw 128 TB Useable

Not C:

\*

HP StoreOnce Catalyst delivers industry-leading backup speeds of up to 100TB/hour to meet shrinking backup windows.

\*

Transfer rate 100 TB/hr; Maximum, depending on model

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### QUESTION 11

A customer is migrating data to a storage array with 7 TB of storage capacity. They need 6 TB to be presented on this array for an existing database requirement.

Which storage virtualization technology should this customer use to optimize the utilization of their available storage?

- A. block-level data compression
- B. primary storage deduplication
- C. virtual replication
- D. thin provisioning

Correct Answer: D

Thin provisioning promises higher capacity utilization rates and is a feature in most storage systems. But buyer beware--not all thin technologies are created equal. HP Converged Storage offers the most comprehensive and advanced set of thin technologies in the industry. With HP, your data center can be lean and efficient.

With HP thin technologies, you can:

\*

Start thin, so you can get the most from every dollar and disk. Easily utilize 80% or more of your purchased capacity with thin provisioning, which, unlike competitive offerings, does not require pre-planning or space reservations.

\*

Cut storage capacity needs in half--guaranteed.<sup>1</sup>

Changes IT refresh cycles by providing simple data mobility across clusters or generations of storage systems without downtime.

\*

Expect high efficiency and high performance--not tradeoffs. With HP 3PAR StoreServ Storage, thin technologies are embedded in hardware, so you can run all of your workloads in a thin state and still have high performance.

\*

Reclaim nearly 100% of unused space.



HP's thin reclamation technology continually hunts down wasted space in fine-grained, 16k increments and returns that capacity to the system for use by other applications.

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**QUESTION 12**

A customer plans to migrate data from a third-party storage system to an HP 3PAR solution. The customer has leased data center space. Which HP 3PAR Storage solution must be integrated into an HP 3PAR rack?

- A. HP 3PAR StoreServ 10800
- B. HP 3PAR StoreServ 10400
- C. HP 3PAR StoreServ F200
- D. HP 3PAR StoreServ 7400

Correct Answer: A

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**QUESTION 13**

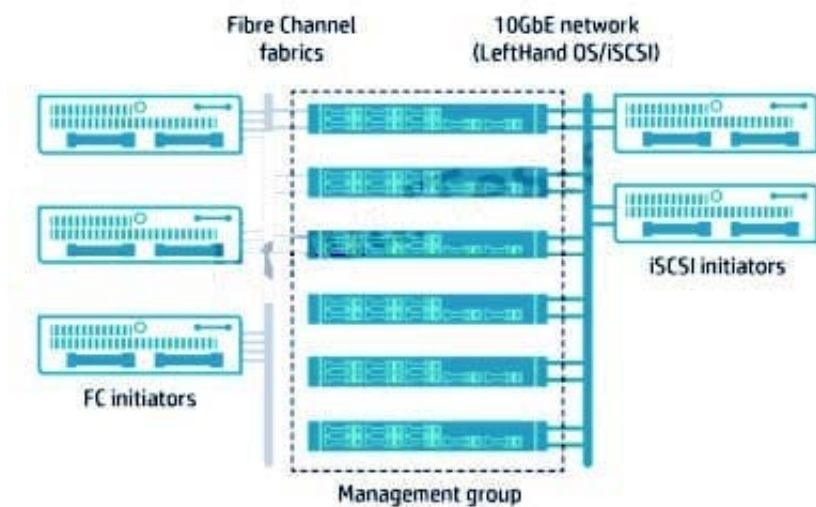
A customer needs a grid-based storage solution that provides Fibre Channel/iSCSI mixed volumes. Which storage system should the customer implement?

- A. HP StoreVirtual 4330 FC
- B. HP StoreVirtual 4830 FC
- C. HP StoreVirtual 4330
- D. HP StoreVirtual 4130

Correct Answer: A

Fibre Channel connectivity is only available on HP StoreVirtual 4330 FC Storage. Note:

\* Figure 2. HP StoreVirtual 4030 FC Storage with iSCSI and Fibre Channel connectivity



#### QUESTION 14

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

Deduplication Optimization HP created a highly-optimized deduplication approach that introduces time- and space-saving techniques. With the goal of eliminating the maximum amount of redundancy in its data inspection, while also maintaining a small index to deliver the fastest performance, the company focused on two components of its deduplication approach: an average variable chunk size of 4K, and a sparse index. HP's Adaptive Micro-Chunking uses variable-length data segments or chunks. The backup stream is broken down into approximately 4K variable-length segments that are examined for redundancy versus previously stored information. Smaller segments means there are more chunks and index comparisons, which also means a higher potential to locate and eliminate redundancy (and produce higher reduction ratios). Comparative solutions use block sizes that range from 8K to 32K. The tradeoff with small chunk sizes is a greater number of index look-ups--which could mean slower deduplication performance. However, HP Labs developed HP Predictive Acceleration technology to maintain performance and reduce RAM requirements. By using a subset of key values stored in memory, StoreOnce determines a small number of sequences already stored on disk that are similar to any given input sequence--what HP refers to as sparse indexing. Then each input sequence is only deduplicated against those few sequences. This minimizes disk IO and uses less disk and little memory, creating more efficiency and enabling faster ingest and, importantly, restoration of data. HP's approach accelerates reads/writes, and delivers rapid ingest rates of up to 28 TB/hour. Predictive Acceleration has enabled HP to require up to 50% less RAM than comparable solutions.

#### QUESTION 15

A customer plans to migrate data from an HP EVA8400 Storage System to two HP 3PAR StoreServ 7400 Storage

Systems. The new storage systems must be configured to support connection redundancy. How many Service Processors

must the customer deploy to support the solution?

- A. One
- B. Two
- C. Three
- D. Four

Correct Answer: A

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