

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

HP Storage Migration

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**QUESTION 1**

A company needs to migrate from a third-party storage system to an environment that can grow by scaling out. The solution must also allow use of a server for downloading upgrades.

Which solution meets the company's requirements?

- A. HP 3PAR StoreServ 7000
- B. HP StoreOnce 6200
- C. HP StoreVirtual 4000
- D. HP 3PAR StoreServ 10000

Correct Answer: C

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**QUESTION 2**

What is the primary benefit of source-side deduplication compared to target-side deduplication?

- A. Source-side deduplication allows more data to be transferred over low-bandwidth links in the network.
- B. Source-side deduplication reduces the amount of data transferred between media servers and the D2D device.
- C. Source-side deduplication isolates data so that it can be more easily streamed to tape for offsite storage.
- D. Source-side deduplication allows more data to be stored on the D2D device.

Correct Answer: B

Reference: Dedupe 2.0: What HP Has In Store(Once)

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**QUESTION 3**

A customer has several servers that use local physical storage and needs to design a solution to aggregate the storage into a single logical pool. The customer also needs to reduce complexity without investing in physical hardware. What should the customer include in the solution?

- A. HP Matrix Storage Provisioning Manager
- B. HP 3PAR StoreServ VSA
- C. HP Virtual Connect Enterprise Manager
- D. HP StoreVirtual VSA

Correct Answer: D

Combine the power of HP StoreVirtual VSA with Microsoft or VMware virtualization and get much more out of your virtualized environment. Turn a set of heterogeneous and disconnected physical disk drives in your servers and storage

devices into a single pool of logical storage capacity.

Incorrect:

Not C: HP 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.

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#### QUESTION 4

A storage administrator needs highly available connectivity from a Microsoft Windows host to an iSCSI storage array. The administrator needs to ensure that the data is still available in the event of a network port failure. What must the administrator enable on the Windows host?

- A. MPIO
- B. NIC teaming
- C. storage cluster services
- D. iSCSI initiator failover

Correct Answer: A

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#### QUESTION 5

A customer is preparing to migrate data between their data centers. They need to perform deduplication at the data creation point and eliminate the need for specialized deduplication hardware in their data centers. How does HP StoreOnce Catalyst enable the customer to achieve this goal?

- A. by performing source-side deduplication
- B. by performing switch-side deduplication
- C. by performing server-side deduplication
- D. by performing target-side deduplication

Correct Answer: A

By enabling source-side deduplication (Dedupe 2.0), HP has the advantage of performing deduplication at the data creation point. Source-side deduplication eliminates the need for specialist deduplication hardware at remote and branch office sites. StoreOnce Catalyst allows customers to align backup with data protection needs, such as minimizing bandwidth utilization when moving data between sites or data centers.

Reference: Dedupe 2.0: What HP Has In Store(Once)

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#### QUESTION 6

A storage administrator manages an HP StoreVirtual 4000 Storage System that runs LeftHand OS 9.5. The administrator plans to integrate the LeftHand OS authentication by using Active Directory. What does the administrator need to do before integrating Active Directory authentication?

- A. Connect to a System Center Configuration Manager (ConfigMgr) server
- B. Configure Credential Cache
- C. Connect to a System Center Operations Manager (OpsMgr) server
- D. Upgrade to LeftHand OS 10.0.

Correct Answer: D

Whats new:

\*

Support for Microsoft Windows Server 2012 with LeftHand OS v10.0

\*

Enhanced Integration for Windows environments with Active Directory and StoreVirtual Recovery Manager. SAN administrator logins will be authenticated against Active Directory. New StoreVirtual Recovery Manager simplifies recovery of Windows files and folders, automates snapshot mounting for fast and easy recovery of data, and enables quick searching of data within snapshots.

Reference; QuickSpecs, HP StoreVirtual 4000 Storage

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## QUESTION 7

A customer needs to balance storage high availability and cost to meet various service level agreements, depending on the application requirement. Which storage methodology should the customer use?

- A. storage RAID
- B. storage federation
- C. storage tiering
- D. deduplicated storage

Correct Answer: C

Tiered storage is the assignment of different categories of data to different types of storage media in order to reduce total storage cost. Categories may be based on levels of protection needed, performance requirements, frequency of use,

and other considerations. Since assigning data to particular media may be an ongoing and complex activity, some vendors provide software for automatically managing the process based on a company-defined policy.

As an example of tiered storage, tier 1 data (such as mission-critical, recently accessed, or top secret files) might be stored on expensive and high-quality media such as double-parity RAIDs (redundant arrays of independent disks). Tier 2

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data (such as financial, seldom-used, or classified files) might be stored on less expensive media in conventional storage area networks (SANs). As the tier number increased, cheaper media could be used. Thus, tier 3 in a 3-tier system might

contain event-driven, rarely used, or unclassified files on recordable compact discs (CD-Rs) or tapes.

Incorrect:

Not B:

Much like vMotion in VMware environments, storage federation goes beyond the capabilities of storage virtualization. Storage federation from HP enables the online non-disruptive movement of storage volumes between arrays in a metro

area. Unlike external storage virtualization appliances that add cost, complexity and downtime, storage federation from HP creates a persistent pool of capacity using native communication between system controllers.

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## QUESTION 8

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 9

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 10**

A customer's network environment contains a third-party storage system and an HP BladeSystem with ProLiant server blades. The customer plans to migrate data to an HP StoreVirtual Storage System.

The storage system must contain at least 20 TB of raw capacity.

Which HP StoreVirtual Storage System should the customer deploy?

- A. HP StoreVirtual 4630
- B. HP StoreVirtual 4530
- C. HP StoreVirtual 4330
- D. HP StoreVirtual 4130

Correct Answer: A

4630 Capacity:

Incorrect:

Not B: 4530 Capacity:

7.2TB Starting

230.4TB Maximum

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**QUESTION 11**

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

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## QUESTION 12

A customer plans to implement an HP B6200 Backup System.

Which benefit does mapping data types to different backup devices provide?

- A. decreased installation cost
- B. decreased recovery time
- C. increased deduplication ratio
- D. increased media utilization

Correct Answer: C

Mapping the same data type to the same device improves deduplication ratios, even if it comes from multiple media servers. Reference; HP B6200 Backup System, Recommended Configuration Guidelines

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## QUESTION 13

For how many days after installation is an Online Import license valid?

- A. 30
- B. 60
- C. 180

D. 365

Correct Answer: C

There is a 180 day time based Peer motion shipped free, this license time starts at installation time, so if the license is enabled at the factory then it will start to tick down.

The license will generate appropriate alerts once the 180 days is drawing close.

Alternatively there is a permanent license too!

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#### QUESTION 14

A company needs a storage solution that provides four host bus adapter (HBA) slots and 64 GB of cache. Which HP storage solution meets these requirements?

A. HP 3PAR StoreServ 7400

B. HP StoreOnce 6200

C. HP 3PAR StoreServ 7200

D. HP StoreVirtual 4000

Correct Answer: A

HP 3PAR StoreServ 7400 4-node base with two 2U enclosures, four controller nodes, 64 GB cache, eight 8Gb/sec FC ports, four adapter slots, and 48 SFF drive bays.

Incorrect:

Not C: 3PAR StoreServ 7200 only has 32 GB cache.

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#### QUESTION 15

A customer is planning to maximize the capacity of a new HP 3PAR StoreServ 7400 Storage System. Including the base controller enclosures, what is the maximum number of disk enclosures that are supported?

A. 5

B. 10

C. 20

D. 26

Correct Answer: C



Capacity Details	3PAR StoreServ 7200	3PAR StoreServ 7400	3PAR StoreServ File Controller
RAID Levels	RAID 0, 1, 5, 6	RAID 0, 1, 5, 6	RAID 0, 1, 5, 67
RAID 5 Data to Parity Ratios	2:1 - 8:1	2:1 - 8:1	2:1 - 8:17
RAID 6 Data to Parity Ratios	4:2, 6:2, 8:2, 10:2, 14:2	4:2, 6:2, 8:2, 10:2, 14:2	4:2, 6:2, 8:2, 10:2, 14:27
Drive Capacities (approximate GB <sup>2</sup> ) (RAID levels, parity ratios, and drive capacities all mixable within the same Storage System)	00 SSD <sup>4</sup> , 200 SSD <sup>4</sup> , 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL <sup>5</sup> , 3000 NL <sup>5</sup>	100 SSD <sup>4</sup> , 200 SSD <sup>4</sup> , 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL <sup>5</sup> , 3000 NL <sup>5</sup>	Not Applicable
Number of Add-on Drive Enclosures (Each Drive Enclosure holds up to 24 drives in 2U for small form factor drives and 4U for large form factor drives)	0 - 5 enclosures	0 - 18 enclosures	Not Applicable

The 7400 has two basic drive enclosures with 4 nodes and can add up to 18 additional drive enclosures, total 20. That makes sense because the maximum number of supported disk is 480 / 24 = 20.

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