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HP Storage Migration

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QUESTION 1

A customer is planning to migrate data from an HP 3PAR F-200 to an HP 3PAR StoreServ 7000 Storage System. What should the customer use to migrate the data?

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

Correct Answer: A

HP 3PAR Peer Motion Software is the first non-disruptive, do-it-yourself data migration tool for enterprise block storage. With Peer Motion, HP 3PAR Storage System customers can load balance I/O workloads across systems at will, perform technology refresh seamlessly, cost-optimize asset lifecycle management, and lower technology refresh capital expenditure.

Unlike traditional block migration approaches, Peer Motion enables customers to migrate storage volumes between any HP 3PAR Storage Systems online, non-disruptively, and without complex planning or dependency on extra tools. Peer Motion leverages HP 3PAR Thin Built In™ technology to power the simple and rapid inline conversion of inefficient, "fat" volumes on source arrays to more efficient, higher-utilization "thin" volumes on the destination 3PAR Storage System.

Peer Motion Manager is an add-on application that orchestrates all stages of the data migration lifecycle to ensure data migration is simple and fool-proof.

QUESTION 2

A company is planning a large client Virtualization environment featuring an HP BladeSystem with ProLiant servers, HP Virtual Connect Flex-10, and HP StoreVirtual 4800 Storage Systems. Which storage advantage does this architecture provide over competitors' client Virtualization solutions?

- A. Storage traffic that enters the Virtual Connect module is prioritized automatically.
- B. Storage traffic remains within the Virtual Connect domain for better Performance.
- C. Each SAN provides dedicated storage for each hypervisor.
- D. Each SAN is its own cluster, eliminating data segmentation across multiple clusters.

Correct Answer: A

HP Virtual Connect FlexFabric interconnects pair with HP FlexFabric 10Gb 2-port onboard or mezzanine based adapters and provide FlexNIC functionality with Converged Network Adapters (CNAs) capable of either iSCSI, FCoE or native Fibre Channel storage protocols. With Virtual Connect 4.00, this flexible bandwidth capability is extended further with minimum and maximum bandwidth settings configurable from within the Virtual Connect management interface. This allows you to prioritize certain types of traffic over other types if contention occurs as well as insuring that certain networks have guaranteed bandwidth.

QUESTION 3

A customer provides their requirements for a storage solution.

A consultant, using his experience and product knowledge, has designed a solution.

He needs to verify that the storage design and licensing rules have been adhered to, and that the solution can be supported by HP. Which resource can provide this information?

- A. HP StorageWorks Sizing Tool
- B. HP ActiveAnswers
- C. HP Storage Solutions Design Guide
- D. HP SAN Design Validator

Correct Answer: A

It is recommended that the HP StorageWorks Sizing Tool (<http://www.hp.com/go/storageworks/sizer>) is used to identify the product and WAN link requirements because the required bandwidth is complex.

QUESTION 4

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, 5:2, 8:2, 10:2, 14:2 | 4:2, 5:2, 8:2, 10:2, 14:2 | 4:2, 5:2, 8:2, 10:2, 14:27 |
| Drive Capacities (approximate GB) ¹ (RAID levels, parity ratios, and drive capacities all mixable within the same Storage System) | 100 SSD*, 200 SSD* 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL ² , 3000 NL ² | 100 SSD*, 200 SSD* 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL ² , 3000 NL ² | 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 an can add up to 18 additional drive enclosures, total 20. That makes sense because the maximum number of supported disk is 480 / 24= 20.

QUESTION 5

What is a main benefit of HP StoreOnce deduplication?

- A. It enables snapshots of deduplicated data to be made easily.
- B. It encrypts data to prevent corruption during the backup cycle.
- C. It optimizes storage capacity to retain more data within a disk backup device.
- D. It allows the devices that contain the data to be thinly provisioned.

Correct Answer: C

Note: Data deduplication is a specialized data compression technique for eliminating duplicate copies of repeating data.

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