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HP Storage Migration

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QUESTION 1

As part of an upgrade of their existing infrastructure, a customer is considering replacing their Fibre Channel host bus adapters (HBAs) and Ethernet converged network adapters (CNAs).

How can they expect to improve efficiency through this upgrade?

A. 3:1 port consolidation

B. path failover redundancy

C. greater aggregate throughput

D. cable reduction up to 75%

Correct Answer: A

The HP Dual Port Converged Network Adapters (CNAs) are dual port adapters that provide Ethernet, iSCSI, and Fibre Channel (FC) connectivity over 10GbE using both Fibre Channel over Ethernet (FCoE) and Converged Enhanced Ethernet (CEE) standards. By consolidating Ethernet, iSCSI, and Fibre Channel onto a converged network adapter, HP CNAs reduce the number of separate adapters and cables required for your datacenter and also reduce operational, power and cooling costs while preserving existing Ethernet and Fibre Channel infrastructure.

QUESTION 2

A small-business customer needs to implement a high IOPS storage system for an application that uses approximately 7 TB of space. Because the customer does not expect a large amount of data growth in the next few years, they need to minimize costs.

Which storage system should the customer implement?

A. HP 3PAR StoreServ 7400

B. HP 3PAR StoreServ 10000

C. HP 3PAR StoreServ F200

D. HP 3PAR StoreServ 7200

Correct Answer: D

QUESTION 3

A customer plans to migrate data from a third-party storage system to an HP StoreVirtual 4330FC Storage System. The new storage system must contain 7.2 TB of usable space after network RAID 10 and hardware RAID 10 are configured.

How many nodes does the customer need?

A. Three

B. Four

C. Six

D. Eight

Correct Answer: B

Note:

*

 In RAID 10, often referred to as RAID 1+0 (mirroring and striping), data is written in stripes across primary disks that have been mirrored to the secondary disks.

*

 RAID 10: Mirroring without parity, and block-level striping

*

 RAID 1+0: (a.k.a. RAID 10) mirrored sets in a striped set (minimum four drives; even number of drives) provides fault tolerance and improved performance but increases complexity.

*

 By its definition, a Network RAID 10 volume consumes capacity at twice the rate of a Network RAID 0 volume.

QUESTION 4

A customer with multiple HP 3PAR P10000 Storage Systems needs to move data between the arrays. They need to ensure that the migration will not disrupt their applications, users, or services. Which storage method should the customer use to achieve this goal?

A. point-in-time copies

B. backups to disk

C. storage federation

D. deduplication

Correct Answer: C

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.

QUESTION 5

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.1

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.

QUESTION 6

A customer needs a grid-based storage solution that provides Fibre Channel/iSCSI mixed volumes. Which storage system should the customer implement?
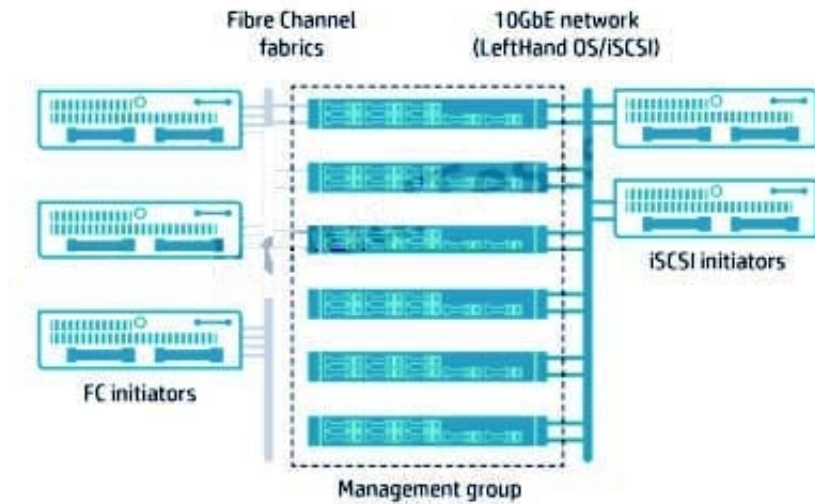
A. HP StoreVirtual 4330 FC

B. HP StoreVirtual 4830 FC

C. HP StoreVirtual 4330

D. HP StoreVirtual 4130

Correct Answer: A

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

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

QUESTION 7

A company\\'s storage infrastructure has grown dynamically, heterogeneously, and larger in scale As a result, the infrastructure is more difficult to manage. The company needs to eliminate manual, repetitive, and error-prone administrative tasks. What should the company use to achieve this goal?

A. hierarchical storage management

B. autonomic management

C. storage tiering

D. thin provisioning

Correct Answer: B

With autonomic management, you can:

*

 Meet service level changes without dropping what you\\'re doing. Policy-driven, autonomic storage tiering balances cost and performance automatically, intelligently and without manual intervention.

*

 Make tedious administration tasks a thing of the past. Eliminate up to 90% of the time that you currently spend doing tedious, manual storage administration tasks. 1 Eliminate array planning; provision just once for the lifetime of an

application; simplify change management; and minimize the potential for human error.

*

 Forget about performance and capacity utilization monitoring. Autonomic storage reporting tools detect and resolve

performance and utilization issues before they become problems.

*

 Eliminate failed backups.

HP Autonomic Restart removes any single point of failure with autonomic error detection and failover.

*

 Free stranded capacity to maximize storage hardware investments. Thin reclamation identifies free but unused space on an ongoing basis to keep utilization rates high over time without manual intervention.

Incorrect:

Not 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.

QUESTION 8

A customer plans to migrate data from an HP EVA 4400 to an HP 3PAR StoreServ 7400 Storage System. They have the following requirements:

-

The new solution must enable them to perform non-disruptive software upgrades.

-

The new solution must not rely on mutilating.

Which feature of the HP 3PAR StoreServ 7400 Storage System fulfills these requirements?

A. SmartStart

B. Virtual Service Processor (VSP)

C. Peer Persistence

D. Port Persistence

Correct Answer: D

QUESTION 9

A company is experiencing performance problems on a third-party storage system with a large VMware environment. The company plans to migrate to an HP 3PAR StoreServ 7000.

Which benefit will the company realize from this migration?

A. ability to handle demand spikes

B. automated operating system deployment

C. support for VMware VAAI

D. built-in virtual machine management

Correct Answer: C

HP 3PAR Application Software Suite for VMware The HP 3PAR Application Software Suite for VMware provides everything you need to make your VMware environment more agile and efficient-including Recovery Manager for VMware, Host Explorer for VMware, VASA support, and three essential plug-ins: the VMware Site Replication Manager (SRM) Adapter, the 3PAR VAAI plug-in, and the 3PAR management plug-in for VMware View. Application Software Suite for VMware uses system-based licensing.

Reference; Quickspecs, HP 3PAR StoreServ 7000

QUESTION 10

What is a main benefit of HP StoreOnce deduplication?

A. It enables snapshots of deduplicated date 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.

QUESTION 11

A large enterprise is experiencing exponential growth of data but shrinking backup windows. They need to design, plan, and integrate a comprehensive disaster recovery solution for all their data centers. Part of their disaster recovery solution must include data migration to a remote site.

How does the HP StoreOnce 6200 Backup System respond to this customer\'s requirements?

A. by supporting more than 32 concurrent data streams to a single VTL or NAS share device

B. by supporting a single fabric with dual switches where the drives are presented to a single port for no single point of failure

C. by requiring a smaller volume of seeding data to be sent over a WAN link than previous StoreOnce D2D models

D. by providing built-in low-bandwidth replication for cost-effective copies of data offsite

Correct Answer: D

Challenges in Enterprise Data Protection Requirements for a modern Enterprise Data Protection solution have many drivers:

*

 Exponential growth of data Shrinking backup windows

*

 The need to design, plan and integrate a comprehensive Disaster Recovery capability

*

 The need for backup devices to be more available than ever before

The HP B6200 StoreOnce Backup System responds to all these requirements by providing:

*

 Deduplication to drive more efficient storage of data

*

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

*

 (D) 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.

Reference; HP B6200 Backup System, Recommended Configuration Guidelines

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QUESTION 12

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).

QUESTION 13

A small-business customer plans to implement an HP 3PAR StoreServ 7200.

What must the customer consider regarding large, unexpected data growth?

A. Additional controller nodes cannot be added to the HP StoreServ 7200.

B. There are no HBA expansion slots in the HP StoreServ 7200.

C. Adaptive Optimization suffers a performance impact with large data.

D. The HP StoreServ 7200 configuration must have fewer than four drive chassis.

Correct Answer: A

QUESTION 14

A customer is planning to migrate data from an HP EVA4400 to an HP 3PAR StoreServ 7000 Storage System. What should the customer use to migrate the data?

A. Recovery Manager

B. Online Import

C. Peer Motion

D. Remote Copy

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.

Incorrect:

Not C: Peer Motion can be used for HP 3PAR not for HP EVA:

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 InTM 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 15

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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