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Vendor:HP

Exam Code:HP0-J66

Exam Name:HP Storage Migration

Version:Demo

QUESTION 1

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.

QUESTION 2

A customer using high-speed parallel operations needs to encrypt data in 128-bit blocks with a key size of up to 256 bits. Which security standard should the customer use?

- A. RC5
- B. DES
- C. AES
- D. SHA

Correct Answer: C

The key size used for an AES cipher specifies the number of repetitions of transformation rounds that convert the input, called the plaintext, into the final output, called the ciphertext. The number of cycles of repetition are as follows:

Incorrect:

Not A: RC5 has a variable block size (32, 64 or 128 bits), key size. Not B: DES is now considered to be insecure for many applications. This is chiefly due to the 56-bit key size being too small.

QUESTION 3

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 ⁵ , 3000 NL ⁵	100 SSD*, 200 SSD*, 300 SAS, 450 SAS, 600 SAS, 900 SAS, 1000 NL, 2000 NL ⁵ , 3000 NL ⁵	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.

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

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

Which tool does the HP StoreVirtual 4000 solution provide to help customers monitor array health?

- A. Command View
- B. Centralized Management Console
- C. FCTool
- D. SAN Toolbox

Correct Answer: B

HP LeftHand P4000 Centralized Management Console (CMC) includes possibilities to:

* monitoring arrays

Incorrect:

Not D: The SAN toolbox is used to provide a simple and effective way to represent the various components of a SAN configuration.

Not A: Want to reduce IT costs and management complexity for your arrays and SANs? Need to be ready for the next set of changes?

HP Command View EVA Software provides you with a powerfully simple storage management experience, automates and aggregates storage management to reduce complexity and increase productivity. Quickly and easily automate tasks

such as configuring RAID groups.

Provisioning capacity is simple, and you can dynamically expand LUNs and add drives online without downtime to quickly meet changing business needs. HP Command View EVA Software is a comprehensive software suite designed to

simplify array provisioning and management of all HP EVA family of storage array products.

You can easily create Vdisks and grow or shrink LUNs, all without downtime. Command View EVA Software allows you to replicate data with snapshots for immediate use.

And you can feel secure about your data with the industry-leading security features.

QUESTION 7

A customer needs to migrate data from a legacy storage system to an HP StoreVirtual 4000. They also need to improve their patch management policies for storage management. How can the HP StoreVirtual 4000 enhance the patch management process for this customer? (Select two.)

- A. by logging applied patch information
- B. by displaying automatic patch alert notifications
- C. by slipstreaming all patches for easy deployment
- D. by displaying all pre-qualification failures
- E. by automatically downloading and applying patches

Correct Answer: BD

HP P4000 SAN Solutions - SAN/iQ software 9.5 Patch Set 02 include: Enhanced the Online Upgrades feature to:

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(B) Display a notifications window in the CMC, which ensures you are notified of any updates to the system, such as patches, customer advisories, or updated release notes. The Notifications window displays automatically when the CMC is

first opened.

*

Identify the type of patch (urgent, recommended, informational) in the notifications window so you can quickly determine the importance of the patch.

*

Patch availability messages on the upgrades tab, menu bar, and package selection window indicate the type of patch (urgent, recommended, optional).

*

Improve download capability by fixing the limitation of concurrent FTP connections. Increasing the number of concurrent FTP connections ensures that you can obtain updates in a timely manner and avoid connectivity issues.

D: HP P4000/StoreVirtual Patch set 04 include:

Added a check to 9.0 CMC online upgrades for any existing hardware problems in a pre-9.0 storage system during the upgrade pre-qualification tests, and ensures that the hardware passes the required tests before proceeding with the upgrade. If a hardware problem is detected, the upgrade fails with an appropriate error message and can be retried after resolving the problem.

QUESTION 8

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 9

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:

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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

QUESTION 10

You are meeting with a customer that has a small business with an unpredictable workload in a virtualized environment. Which product family from the HP array portfolio do you lead your discussion with?

- A. P2000
- B. P4000
- C. X3000
- D. P6000

Correct Answer: B

QUESTION 11

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.

QUESTION 12

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:

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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.