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HP Storage Migration

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QUESTION 1

A customer plans to implement an HP StoreOnce B6200 Backup System. The customer has two subnets that the backup system must utilize to communicate. What should be used to meet these requirements?

- A. DHCP for both subnets
- B. DHCP for one subnet and a static IP for the other
- C. a single network gateway for both subnets
- D. an IP address for each subnet

Correct Answer: C

The HP B6200 Backup System supports only one gateway for the whole cluster. Reference; HP B6200 Backup System Recommended Configuration Guidelines

QUESTION 2

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)

QUESTION 3

A customer has implemented an HP 3PAR StoreServ 7200 and needs to non-disruptively change the RAID characteristic of a virtual volume. The customer must also change the disk tier where the virtual volume resides. Which HP 3PAR command or software feature should the customer use to accomplish this task?

- A. tunevv
- B. Adaptive Optimization



C. Dynamic Optimization

D. tunesys

Correct Answer: A

tunevv - Change the layout of a virtual volume.

SYNTAX

The tunevv command uses one of the following syntax conventions:

tunevv usr_cpg [options]

tunevv snp_cpg [options]

tunevv restart [options]

tunevv rollback [options]

SUBCOMMANDS

usr_cpg

Moves the logical disks being used for user space to the specified CPG.

snp_cpg

Moves the logical disks being used for snapshot space to the specified CPG.

restart

Restarts a tunevv command call that was previously interrupted because of component failure, or because of user initiated cancellation. This cannot be used on thinly provisioned virtual volumes.

rollback

Returns to a previously issued tunevv operation call that was interrupted. The canceltask command needs to run before the rollback.

This cannot be used on thinly provisioned virtual volumes.

DESCRIPTION

The tunevv command is used to change the properties of a virtual volume that was created with either the createvv or createtpvv command by associating it with a different CPG.

Incorrect:

Not B: The HP 3PAR Data Optimization Software Suite v2 combines capabilities that provide autonomic storage tiering and dynamic data mobility with assured quality of service . Adaptive Optimization provides highly reliable, non-disruptive,

cost-optimized storage tiering at the sub-volume level to deliver the right QoS to the right data at the right time on a large scale and Dynamic Optimization delivers it at the volume level.

Not D:



Best practice is to run Autonomic Rebalance (also known as tunesys) after adding drives.

QUESTION 4

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 5

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!

QUESTION 6

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:

*

(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 7

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

QUESTION 8

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

QUESTION 9

A customer wants a new HP 3PAR StoreServ 7200 Storage System to maximize storage performance. What should the customer implement?

- A. quad controllers
- B. Adaptive Optimization
- C. 120 SSDs
- D. Dynamic Optimization

Correct Answer: B

The HP 3PAR Adaptive Optimization (AO) software takes optimization a step further into sub-LUN tiering. AO migrates sub-LUN data across CPGs based on user-defined policies. Two or three CPG tiers can be specified per policy; all



volumes inside a CPG are subject of an AO policy. AO policies usually operate on an FC and NL tier or on an SSD, FC, and NL tier.

This tool can improve system response and reduce disk acquisition cost by storing frequently accessed data in the faster tier while moving infrequently accessed data to the slower and cheaper slower tier.

Incorrect:

Not D: Related to online migration:

P 3PAR's Dynamic Optimization (DO) software offers the functionality of EVA's Dynamic LUN Migration: volumes are migrated online to another CPG with a different RAID level, set size, drive media type , etc.

QUESTION 10

A customer plans to migrate data from a third-party storage system to an HP 3PAR StoreServ 7200 Storage System.

The new storage system must provide up to 128 disk drives.

How many additional drive chassis does the customer need?

- A. Three
- B. Four
- C. Five
- D. Six

Correct Answer: B

QUESTION 11

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 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:

*

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 13

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 14

A company needs to migrate from their existing legacy storage system to a new multi-site cluster with Fibre Channel support and 10GbE ports. Which HP solution meets these requirements?

- A. HP StoreAll 9300 IB
- B. HP EVA P6500 FC/iSCSI
- C. HP StoreSure 2000
- D. HP StoreVirtual 4330 FC

Correct Answer: D

HP StoreVirtual 4330 FC Host interface

*

1 GbE iSCSI (4) Ports and

*

10 GbE iSCSI (2) Ports and

*

8 Gb Fibre Channel (2) Ports



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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