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HP Storage Migration

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QUESTION 1

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:

*

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 2

A customer plans to implement an HP StoreVirtual 4000 Storage System.

Which NICs can the customer use to enable adaptive load balancing after installation? (Select two.)

- A. three 10GbE
- B. one 10GbE
- C. one 1GbE
- D. two 10GbE
- E. two 1GbE

F. three 1GbE

Correct Answer: DE

Bonding method supported

Supported NIC bonded configurations

		ALB	ALB	LACP	LACP	A/P	A/P
		1 Gb	10 Gb	1 Gb	10 Gb	1 Gb	10 Gb
ALB	1 Gb	Y	N				
ALB	10 Gb	N	Y				
LACP	1 Gb			Y	N		
LACP	10 Gb			N	Y		
A/P	1 Gb					Y	Y
A/P	10 Gb					Y	Y

ALB = Adaptive load balancing
 LACP = Link aggregation
 A/P = Active/Passive
 Y = Supported
 N = Not supported
 Gb = Gigabits

Note:

* Adaptive load balancing (ALB)

Uses interfaces simultaneously for data transfer (receive and transmit load balancing). If one connection fails, the remaining connection continues without disruption to the storage nodes operation or iSCSI sessions. It offers the benefits of the

increased transmission rates without additional switch configuration. Interfaces in an ALB bond may be connected to different switches and therefore supports switch failover.

QUESTION 3

A storage administrator needs to perform a gradual migration of large backup volumes and jobs to a remote D2D system over time. Because this data is being replicated for the first time, the administrator needs to populate the target device with all the relevant hash codes.

Which method should the administrator use to achieve this goal?

- A. using co-location
- B. using removable media

- C. seeding data over the WAN link
- D. setting initializer to migration

Correct Answer: C

*

prior to being able to replicate only unique data between source and target D2D, we must first ensure that each site has the same hash codes or "bulk data" loaded on it ?this can be thought of as the reference data against which future

backups are compared to see if the hash codes exist already on either source or target. The process of getting the same bulk data or reference data loaded on the D2D source and D2D target is known as "seeding".

*

Seeding is generally is a one-time operation which must take place before steady-state, low bandwidth replication can commence. Seeding can take place in a number of ways:

/ Over the WAN link ?although this can take some time for large volumes of data / Using co-location where two devices are physically in the same location and can use a GbE replication link for seeding. After seeding is complete, one unit is physically shipped to its permanent destination.

/ Using a form of removable media (physical tape or portable USB disks) to "ship data" between sites.

QUESTION 4

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

QUESTION 5

A customer needs to be able to perform an instant recovery of database data files. The recovery point is one hour to enable them to have a specified point time to restore the data if the data migration fails. Which form of data replication enables the customer to achieve this goal?

- A. volume clones
- B. backups to disk

- C. asynchronous replication
- D. snapshots

Correct Answer: B

QUESTION 6

A customer is migrating data from a third-party storage system to an HP 3PAR StoreServ 7000 Storage System. They want the new storage system to contain 480 disk drives at minimal cost.

- A. two HP 3PAR StoreServ 7200 storage systems
- B. one HP 3PAR StoreServ 7400 two-node storage system
- C. one HP 3PAR StoreServ 7400 four-node storage system
- D. one HP 3PAR StoreServ 7200 storage system

Correct Answer: C

HP 3PAR StoreServ 7400 Number of disk drives: 8-480 drives Number of controller nodes: 2 or 4

This model offers up to 4-node architecture with up to 480 drives (SSD, SAS, NL).

Incorrect: Not A, not D: HP 3PAR StoreServ 7200 Number of disk drives: 8-144 drives

QUESTION 7

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 8

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 9

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 10

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

QUESTION 11

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 12

A customer is extending a SAN by using wavelength division multiplexing (WDM) to migrate their master database to a

new data center. They need to ensure that there is adequate line speed to perform the migration in the event of a primary path failure.

What should the customer do to achieve this goal?

- A. Ensure that all SAN devices use the same Fibre Channel speed.
- B. Ensure that all SAN switches have the same core PID number.
- C. Ensure that there are separate WDM paths for transmitting and receiving packets
- D. Ensure that a secondary path with sufficient buffer-to-buffer credits is available

Correct Answer: D

WDM devices extend the distance between two FICON directors. The devices are transparent to the directors and do not count as an additional hop. To accommodate WDM devices, you must have enough Fibre Channel BB_credits to maintain line-speed performance. WDM supports Fibre Channel speeds of 10 Gb/s, 8 Gb/s, 4 Gb/s, 2 Gb/s, and 1 Gb/s. When planning for SAN extension, BB_credits are an important consideration in WDM network configurations. Typical WDM implementations for storage replication include a primary and secondary path. You must have enough BB_credits to cover the distances for both the primary path and secondary path so that performance is not affected if the primary path fails.

Reference: HP Mainframe Connectivity Design Guide

QUESTION 13

A customer network environment has the following components:

- HP ProLiant rack-mounted servers
- Microsoft Hyper-V virtualization
-
- a third-party storage system

The customer plans to implement an HP 3PAR StoreServ 7000 Storage System.

- A.
SmartStart server
- B.
physical Service Processor
- C.
Windows Server 2012
- D.
virtual Service Processor

Correct Answer: C

Setting Up a Windows Hyper-V Server/HP 3PAR StoreServ Storage Configuration Required is a Windows server with an x64-based processor running an x64 version of Windows Server 2012, Windows Server 2008 Standard, Windows Server 2008 Datacenter, Windows Server 2008 Enterprise (SP1, SP2), or Windows Server 2008 R2 Server.

Incorrect: Not A, not B, not D: No particular parameters need to be set in the Hyper-V software to work with the HP 3PAR StoreServ Storage; no additional steps are necessary on the HP 3PAR StoreServ Storage to work with a Windows Hyper-V server

Reference; HP 3PAR Windows Server 2012 and Windows Server 2008 Implementation Guide

QUESTION 14

A small-business customer is planning to implement an HP 3PAR StoreServ 7000 Storage System. The customer needs to perform the installation of the new system without external assistance.

Which product does HP provide to facilitate customer self-installation of the new HP 3PAR StoreServ 7000 Storage System?

- A. HP 3PAR SmartStart
- B. Windows Server 2008 R2
- C. physical Service Processor
- D. virtual Service Processor

Correct Answer: A

SmartStart guides you through:

Setting up the HP 3PAR Service Processor

Initializing the HP 3PAR StoreServ 7000 Storage system

Configuring application hosts

Creating basic storage

Installing the HP 3PAR Management Console

QUESTION 15

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.

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