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Designing HP Enterprise Storage Solutions

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QUESTION 1

A customer has these servers in their IT environment. .1 Exchange server .6 SQL database servers .5 file servers .16 application servers

The customer is using an HP StoreOnce Backup System to back up their data. To achieve the best deduplication ratio/performance compromise, how many virtual libraries should be created?

A. 1

B. 4

C. 5

D. 13

Correct Answer: B

http://www.manualslib.com/manual/484560/Hewlett-Packard-D2d.html?page=7 Key factors for performance considerations with deduplication:

The inline nature of the deduplication process means that there will always be some performance trade-off for the benefits of increased disk space utilization.

With each Virtual Library or NAS Share created there is an associated dedicated deduplication deduplication across all backups is required, this will only happen if a single store. If Global virtual library or NAS share is configured and all

backups are sent to it. The best deduplication ratio will be achieved by configuring a minimum number of libraries/shares. Best performance will be gained by configuring a larger number of libraries/shares and optimising for individual

deduplication store complexity. If servers with lots of similar data are to be backed up, a higher deduplication ratio can be achieved by backing them all up to the same library/share. If servers contain dissimilar data types, the best

deduplication ratio/performance compromise will be achieved by grouping servers with similar data types together into their own dedicated libraries/shares. For example, a requirement to back up a set of exchange servers, SQL database

servers, file servers and application servers would be best served by creating four virtual libraries or NAS shares; one for each server set.

When restoring data from a deduplicating device it must reconstruct the original un-deduplicated data stream from all of the data chunks. This can result in lower performance than that of the backup. Full backup jobs will result in higher

deduplication ratios and better restore performance (because only one piece of media is needed for a full restore). Incremental and differential backups will not deduplicate as well

QUESTION 2

Which HP storage array features HP Express Query?
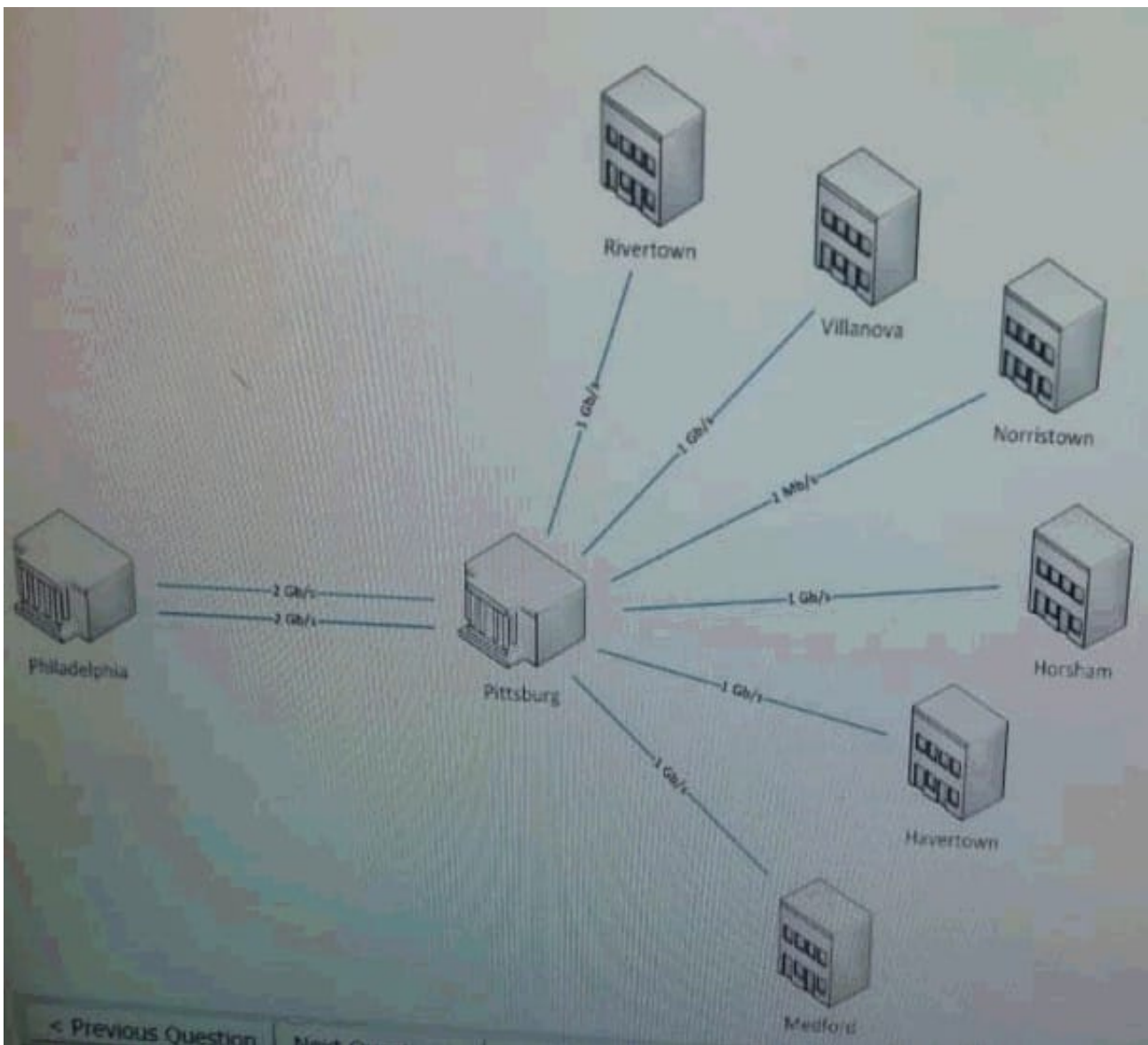
A. HP 3PAR StoreServ

B. HP StoreAll

C. HP StoreEver

D. HP StoreVirtual

Correct Answer: B

Reference: http://www8.hp.com/us/en/products/data-storage/storeall.html (what\'s new)

QUESTION 3

A client asks you to demonstrate the capabilities of an HP 3PAR StoreServ 7000 Storage array. Which tool should you use?

A. SAN Connection Manager.

B. SAN Network Advisor.

C. InForm Management Console.

D. Command View Simulator.

Correct Answer: C

HP StorageWorks Simple SAN Connection Manager (SSCM) is a GUI-based management application for basic management of storage area network (SAN) components, such as host bus adapters (HBAs), switches, and storage arrays. SSCM uses Microsoft\\'s Virtual Disk Service (VDS) to manage storage arrays. SSCM provides simplified storage management for VDS- compliant storage devices in a single, integrated, wizard-based user interface.

HP B-series SAN Network Advisor (NA) Software and HP B-series Data Center Fabric Manager (DCFM) Software provide comprehensive management of data center fabrics -- including configuration, monitoring, and management of all B-series Directors, Switches and HBAs. InForm Managemetn Console simplifies storage management by placing everything you need to administer and optimize your entire HP 3PAR Utility Storage deployment in a single window, including remote replication to disaster recovery sites.

Command View Simulator EVA If you are an existing HP EVA Storage customer looking for a pain-free evolution that takes the best of EVA into the future of storage, then look no further than HP 3PAR StoreServ 7000 Storage. With the new Online Import feature, you can quickly and easily move data from HP EVA to HP 3PAR StoreServ Storage using HP Command View EVA. The upgrade process couldn\\'t be simpler, and HP 3PAR StoreServ Storage is everything you could want in a next generation of EVA--and more.

QUESTION 4

Scenario Following the merger of two financial companies, management is considering combining the two distinct customer call centers into a single physical location. In addition to the overall call center headcount increasing by 30%, the support for two distinct customer bases presents the potential of having two different desktop PCs on the desk of each call center employee. Instead of correspondingly increasing IT support headcount to manage the single, larger call center and call center infrastructure, management believes they can reduce the required time to support call center operations by 40% if they employ virtual desktop technology.

An initial assessment has identified the need for a centralized storage solution that could support 500 virtual desktops running a variety of applications that can scale quickly to accommodate an expected increase in call center staff. The customer is already an HP Blade System customer using HP Virtual Connect Flex-10.

Some of the additional business criteria identified in customer planning interviews includes:

Use client virtualization for the desktops.

Achieve the highest possible density and performance for the virtual desktops,but keep the virtual desktop storage traffic off the network due to a current, existing limitation of only 1GbE.

Do not use standalone, network-attached storage.

Limit the impact of additional rack space.

Minimize the risk of additional help-desk tickets.

Present multiple solutions, prioritized with a recommendation.

Refer to the scenario.

The company preferred to implement an ISCSI storage solution to reduce implementation costs. Which addition benefit of an HP StoreVirtual Storage solution should you emphasize in your proposal?

A. scale-up architecture

B. support for multiple workloads

C. built-in replication disaster recover

D. thin convergence

Correct Answer: D

The company preferred to implement an iSCSI storage solution to reduce implementation costs You need affordable storage designed for a virtualized infrastructure that\'s easy to manage, supports continuous data growth, and keeps your

business up and running. HP StoreVirtual 4000 Storage, based on the LeftHand operating system, is a scale-out storage platform that is designed to meet the fluctuating needs of virtualized environments. Intuitive, common management and

storage federation meet the need for simplicity and flexibility in today\'s virtual datacenters. It allows data mobility across tiers, locations, and between physical and virtual storage..

HP StoreVirtual is the most versatile storage platform on the market today. Its software-defined storage VSA software, and ProLiant rack and BladeSystem-based hardware models provide options to fit any infrastructure and budget.

Enterprise-class storage software functionality and leading virtualization software integration are built-in. This makes StoreVirtual the ideal platform for supporting virtualization growth at all stages. HP P4800 G2 31.5TB SAS SAN

BladeSystem, Thin provisioning support SAN/iQ Thin Provisioning. LeftHand Remote Copy lets you asynchronously replicate thin provisioned, (Not Answer D,)

QUESTION 5

Your customer has an existing HP StoreVirtual P4500 G2 multi-site SAN, which has become I/O constrained. They want to implement a new higher performance tier into the existing management group. Which Peer Motion method provides the ability to dynamically rebalance data volumes to the higher performance tier?

A. Dynamic LUN management

B. Cluster swap

C. Remote Copy

D. Volume migration

Correct Answer: D

http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-2922ENW.pdf

Peer Motion on HP StoreVirtual Storage: Volume migration Peer Motion on HP StoreVirtual Storage allows a system administrator to move an HP StoreVirtual volume from one cluster to another, online, without having to reconfigure the host or applications. This is done by simply editing the properties of a volume, selecting the Advanced tab, and choosing a new cluster from the cluster drop-down box. The blocks that make up the volume on the original cluster will begin to migrate to the new cluster, and the LeftHand OS will automatically redirect and proxy requests for blocks to the proper cluster as the data migration is underway. When the migration is complete the iSCSI sessions to the new cluster from the host are automatically restored (assuming the new cluster\'s virtual IP address has been added to the iSCSI

configuration of the host server). A typical use case for Peer Motion could be a volume that contains data for an application that has increasing performance needs. If The volume started out on an MDL SAS cluster, a storage administrator could use Peer Motion to move the volume to a SAS-based cluster. If the volume is on a SAS cluster, the storage administrator could choose to add more nodes to the cluster to provide more performance for the volume, or they could choose to move the volume to an even higher performing tier, such as an SSD-based cluster.

Peer Motion on HP StoreVirtual Storage: Cluster swap The virtualization of storage within an HP StoreVirtual cluster means that the rules about data being tied to physical hardware resources no longer applies. This virtualization allows volumes to be moved dynamically between different physical hardware clusters, and also allows for a feature called cluster swap--the ability to remove existing storage nodes from a cluster and replace them with new storage nodes, online,

with no loss of data or data availability.

In one operation, data from the old storage nodes is moved to the new storage nodes, and all IO is properly directed to the correct node. Upgrading to newer, faster, or larger storage nodes does not require any downtime, providing a clear, well-defined strategy for future expansion and growth. As an example, a customer might start out with a cluster of 8 drive systems. As the customer adds more applications and workload to the cluster, they could reach the Performance or capacity limit of the nodes. They could easily migrate to nodes with 12 or more drives to increase capacity and performance, without having to bring any applications offline.

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