HP0-J64^{Q&As}

Designing HP Enterprise Storage Solutions

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QUESTION 1

Which HP 3PAR InForm Operating System feature provides the ability to analyze how volumes on the array are using physical disk space and makes intelligent adjustments to maintain optimal volume distribution when new hardware is added to the system?

A. HP 3PAR Peer Motion

B. HP 3PAR Autonomic Rebalance

C. HP 3PAR Adaptive Optimization

D. HP 3PAR System Reporter

Correct Answer: B

http://www.hp.com/hpinfo/newsroom/press_kits/2012/HPDiscoverFrankfurt2012/3PAR7000_O p_System_DS.pdf

HP 3PAR Autonomic Rebalance

HP 3PAR Autonomic Rebalance optimizes the use of future capacity expansions without requiring administrator intervention. It analyzes how volumes on the HP 3PAR Storage System are using physical disk space and makes intelligent,

autonomic adjustments to ensure optimal volume distribution when new hardware is added to the system.

(Thank You - Antonio)

HP 3PAR Adaptive Optimization Software is a granular, policy-driven, autonomic storage tiering software solution. It delivers service level optimization for enterprises and cloud data centers and helps reduce cost, while increasing agility and

minimizing risk.

HP 3PAR System Reporter Do you need to gather and track historical system information for your HP 3PAR Storage Systems? HP 3PAR System Reporter Software is a flexible, intuitive, web-based performance and capacity management

tool that aggregates fine-grained performance and capacity usage data for HP 3PAR Storage Systems, regardless of location. The highly customizable, robust reporting offers straightforward report sharing and report scheduling which

simplifies performance monitoring and assists in gathering data for optimization and planning. System Reporter enables quick troubleshooting and isolation of performance issues minimizing business impact. System Reporter proves

particularly useful for service providers and enterprises about detailed information for service level administration. The ability to create reports by user group supports charge back and meeting service level agreements. Works with HP 3PAR

Adaptive Optimization Software to enable policy management of autonomic storage tiering resources.

QUESTION 2

A very large application service provider (ASP) is going through a major virtualization effort. After the initial meeting with

the ASP team, your notes are:

-Customer objective is to virtualize their environment. Modernize and simplify their infrastructure

- All servers are on HP BladeSystem c7000 Virtual Connect 1/10-F and Virtual Connect FC modules, G5 physical blade servers. Lease is up.

-48 blades require virtualization and NFS connections. Existing filer is third party Lease is up to Need more I/O and Scale.

- 12 blades are Clustered SQL Server. No virtualization on these blades required. Storage today is on new FC-based HP 3PAR StoreServ 7400

-16 new virtualized servers are targeted to be connected to the existing HP 3PAR StoreServ 7400 FC

As you develop a proposal, what should be part of the design to meet the customer goals? (Select two)

A. Add an HP StoreEasy X3830 Gateway rackmount server to the front end of the 3PAR

B. Add an HP StoreEasy X5000 rackmount server to the front end of the 3PAR

C. Add new Hp BladeSystem c700s and Gen8 blades with Virtual Connect Flex 10

D. Add new Hp BladeSystem c700s and Gen8 blades with HP Virtual Connect Flex Fabric.

Correct Answer: AD

Storage today is on new FC-base HP 3PAR StoreServ 7400 FC HP Virtual Connect FlexFabric: HP Virtual Connect FlexFabric 10Gb/24-port Modules are the simplest, most converged and flexible way to connect virtualized server blades to any data or storage network. VC FlexFabric modules eliminate up to 95% of network sprawl at the server edge with one device that converges traffic inside enclosures and directly connects to LANs and SANs.
http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA1-0311ENW.pdf

HP Virtual Connect Flex-10 Simplify and make your data center change-ready. The HP Virtual Connect Flex-10 10Gb Ethernet Module for c-Class BladeSystem allows administrators to fine-tune network bandwidth at the server edge by dividing each 10 Gb network connection into four independent physical FlexNIC server connections. Each FlexNIC can be configured from 100 Mb up to 10 Gb, allowing just the right amount of network bandwidth based on your application needs.

http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA1-0311ENW.pdf

HP StoreEasy X5000 http://www8.hp.com/pt/pt/products/file-object-storage/product-detail.html?oid=5335827#!tab=features

HP StoreEasy 5000 Storage is a new breed of efficient, secure, and highly available storage to simply address the file and application storage challenges of customers\\' medium to large business and branch office environments. StoreEasy 5000 Storage, built on industry leading ProLiant DNA and Microsoft Windows Storage Server, integrates easily into new and existing environments with a straightforward, consistent management experience for IT generalists.

HP StoreEasy X3830 http://www8.hp.com/pt/pt/products/file-object-storage/product-detail.html?oid=5335920#!tab=features

⊟ SAN / Array Compatibility

Host Bus Adapter (HBA) Support	HP StoreEasy 3030 Gateway Storage products are designed to be connected to a SAN or storage array by adding a recommended Fibre Channel or SAS HBA, or by using an iSCSI initiator. HBA selection is left as your choice based on existing infrastructure and/or desired array support. Please see compatible HBAs listed in the 'Options' section below. **NOTE: See the following URL for additional information about Fibre Channel HBAs:** http://h18006.www1.hp.com/storage/saninfrastructure/hba.html
HP SAN / Array Support	HP 3PAR StoreServ http://h18006.www1.hp.com/storage/disk_storage/3par/index.html HP StoreVirtual **http://h18000.www1.hp.com/products/quickspecs/13254_div/13254_div.html** HP P9000/XP http://h18006.www1.hp.com/storage/xparrays.html HP P6000/EVA **http://h18006.www1.hp.com/products/storageworks/eva/index.html** HP P2000/MSA **http://h18006.www1.hp.com/storage/disk_storage/msa_diskarrays/index.html**

In client virilization environments, up to 80% of network traffic is server-to-server and server-to- storage. Legacy, multi-tier, fibre-channel network architectures require a complex web of network cards, interconnects, cables, and switches to

keep pace with this changing traffic. This approach creates performance bottlenecks and drives higher costs and complexity to build, maintain, and secure at scale.

To address this problem HP announced HP Virtual Connect for 3PAR with FLAT SAN technolocv. the industry\\'s first direct connection to fibre channel-based storage that does not require dedicated switches. This technology provides a

simplified architecture with best-h-class storage and network innovations such as BladeSystem Virtual Connect, and the HP 3PAR StoreServ.

Customer benefits include these features:

Single layer fibre channel storage network eliminates SAN switches and Host Bus Adapters (HBAs)

-Massive simplification of fabric management

-2.5x faster fibre channel storage provisioning

-50% less infrastructure costs

-Automated zoning capabilities to set up zones with one-click

-Up to 55% less latency by removing the SAN fabric layer

QUESTION 3

CORRECT TEXT

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.

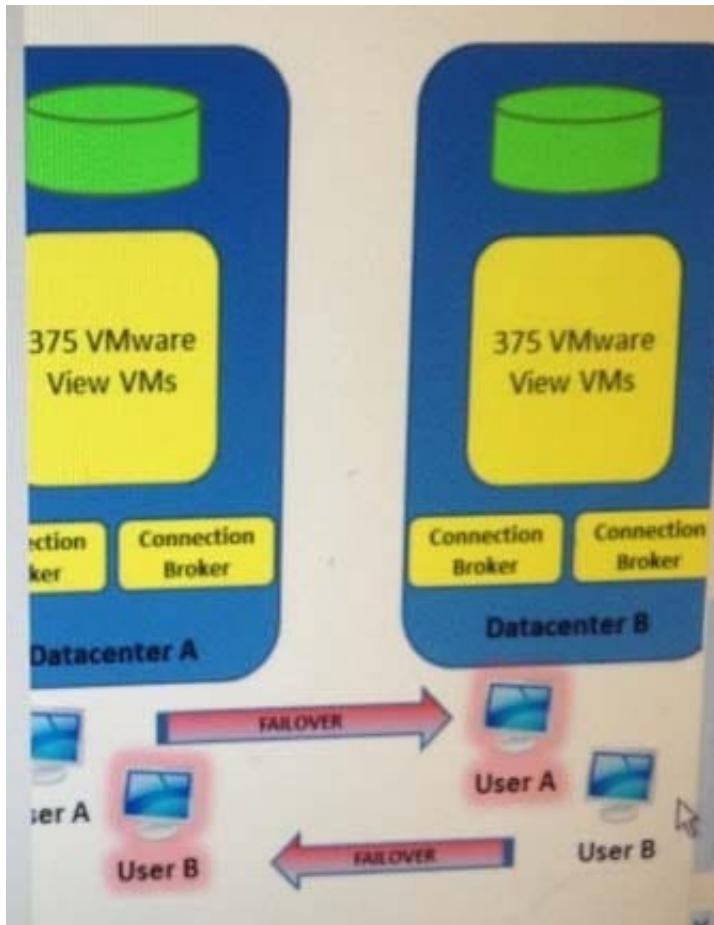Minimize the risk of additional help-desk tickets.

Present multiple solutions, prioritized with a recommendation.

Refer to the scenario.

The customer realized that they did not include any requirements for high availability. They need to ensure that at least 75% of the users can be supported from any location in the event of a disaster while keeping implementation costs as low

as possible. They tell you that all users are non-persistent, use the same desktop image, and that the network can be upgraded to 10Gb.

Which diagram demonstrates how the solution should be modified to meet the new requirements?

Correct Answer: Check the answer in explanation.

User A in DataCenter A (375 VmWare) transfer to DataCenter B User B in DataCenter B (375 VmWare) transfer to DataCenter A Not replication between DataCenter A and DataCenter B

QUESTION 4

Which technology was introduced with HP Store Virtual Lefthand OS 11.0?

A. Site Recovery Manager (SRM) Support

B. Peer Motion

C. Adaptive Optimization

D. Persistent Ports

Correct Answer: C

Reference: http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA4-8544ENW.pdf (page 2)

QUESTION 5

Which feature in HP StoreVirtual Lefthand OS is ideal in VMware based VDI environment it stores all the virtual machines on a single volume once, without replicating data?

A. Thin Provisioning snapshots

B. Adaptive Optimization

C. SmartClone volume

D. Network RAID

Correct Answer: D

Network RAID is a per volume setting which can be adjusted to meet data protection and replication requirements on the fly.

There are a variety of Network RAID levels to choose from, but for most production environments it is recommended to use Network RAID 10, which stores two copies of the data on the cluster. With this setting, the volumes remain online if

you loseany single node in the cluster. From a capacity standpoint, you would need to take your capacity estimate based on your assessment of applications and workloads above and multiply it by the numbers of copies you want. For

Network RAID 10, this is a factor of 2, as you store two copies of the data on this volume. More information on the other Network RAID levels and their respective use cases can be found in the HP StoreVirtual User Guide.

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