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**QUESTION 1**

A regional market leader in direct financial services runs several call centers across the United States and is opening a number of new call centers in the near future. The client uses Windows XP on dedicated workstations. The IT infrastructure consists of numerous HP Proliant HP DL360 G5 and HP Proliant DL380 G6 servers running VMware ESX or Windows 2003, direct- attached storage, and Hp Ultrium tape drivers.

Which HP storage and virtualization solution should be designed to support the customer IT infrastructure roadmap for client virtualization?

- A. HP 3PAR StoreServ 7000 with KVM
- B. HP EVA P6000 with VMs
- C. HP StoreVirtual 4000 with VMware View
- D. HP StoreSure 2000 with XenDesktop

Correct Answer: D

- A. kernel-based virtual machine (KVM)
- B. virtual machine(s) VMs
- C. VMware Horizon View™ (formerly VMware View) is a virtual desktop infrastructure solution that simplifies desktop management and provides users with what they need, when they need it. D. Citrix XenDesktop is the award winning solution for virtual desktop delivery and apps on demand. XenDesktop delivers virtual apps and desktops on a single unified platform, providing self- service access for users and simplified management for IT. D. HP StoreSure 2000 Modular Smart Array (MSA) solutions 2312fc, 2324, and P2000 and focuses on implementing and managing an MSA SAN solution.

[PDF] [HP MSA P2000 G3 Modular Smart Array Systems - Hewlett Pack...](#)
h18000.www1.hp.com/products/.../13551_div.pdf Traduzir esta página
04/10/2013 - Hewlett Packard's MSA P2000 Family of storage arrays features P2000
... The P2000 G3 SAS array is designed for directly attaching up to four ...

C. HP StoreVirtual 4000 <http://www8.hp.com/pt/pt/products/disk-storage/product-detail.html?oid=4118659#!tab=features> Question possibility are HP StoreVirtual 4000 with VMware View, but

iSCSI/Fibre Channel: Direct attach or direct connect

HP StoreVirtual does not support direct attach configurations for iSCSI or Fibre Channel connectivity.

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA2-5654ENW.pdf>

QUESTION 2

A company is experiencing performance issues on their four node HP StoreServ 10800 configured with 256x 300 GB Fibre Channel drives. A System Reporter analysis reveals that single tier of Fibre Channel storage is under a lot of I/O



pressure from an explosion of VMware servers running high I/O messaging applications used to track package routes daily in an Oracle database.

There are 40x 50GB thin provisioned volumes that make up 90% of mostly read I/O activity during regular business hours. The customer is upset and need a solution to quickly increase performance for these critical applications.

Which solution should you propose to cost-effectively resolve this issue?

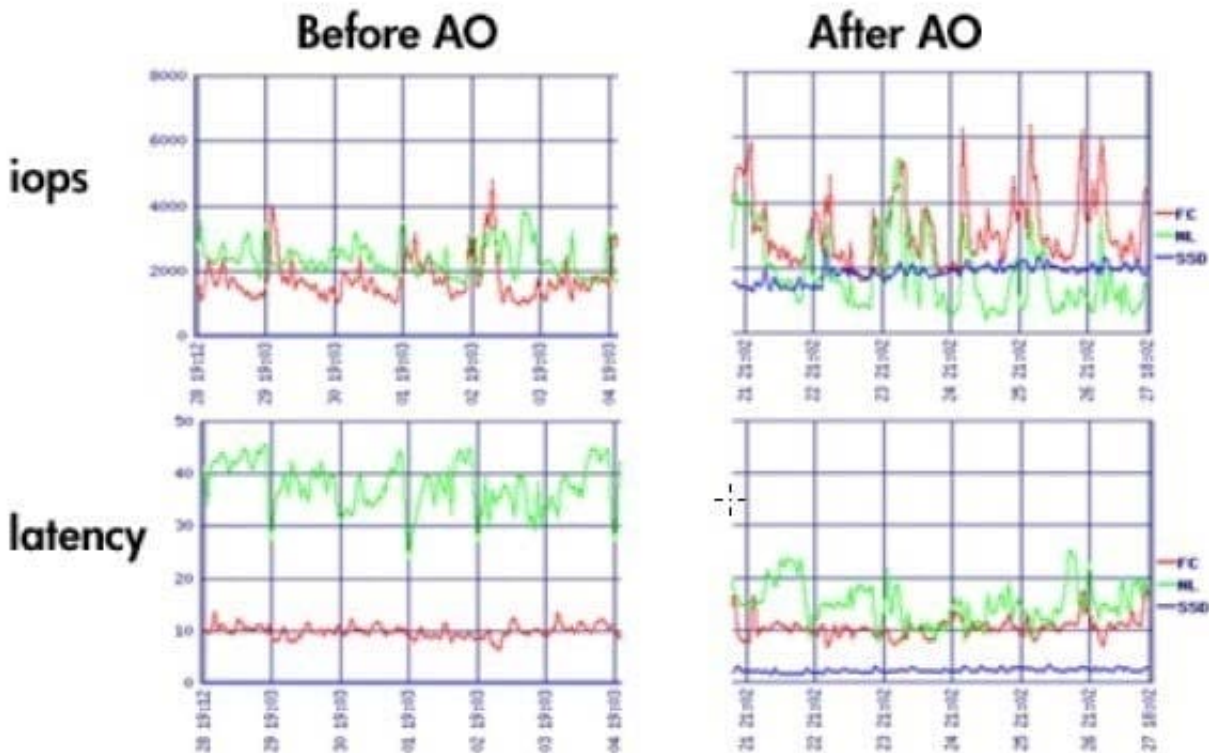
- A. Upgrade with 256 addition 300 GB drives and Adaptive Optimization to automatically move high I/O volume regions to a RAID 10 CPG for better I/O performance
- B. Utilize Peer Motion to non-disruptively move the offending work load to an SSD optimized HP 3PAR StoreServ array.
- C. Upgrade with 32x 100GB SSD drives and Adaptive Optimization configured for performance-based placement in two storage tiers.
- D. Upgrade with 2 additional nodes and double host-facing Fibre Canned ports to archive better I/O caching across all array nodes when accessing small volumes

Correct Answer: C

Customer case study This section describes the real benefits that a customer derived from using HP 3PAR Adaptive Optimization. The customer had a system with 96 300 GB 15k rpm FC drives and 48 1 TB 7.2k rpm NL drives. The customer had 52 physical servers connected and running VMware with more than 250 VMs. The workload was mixed (development and QA, databases, file servers) and they needed more space to accommodate many more VMs that were scheduled to be moved onto the array. However, they faced a performance issue: they had difficulty managing their two tiers (FC and NL) in a way that kept the busier workloads on their FC disks. Even though the NL disks had substantially less performance capability (because there were fewer NL disks and they were much slower), they had larger overall capacity. As a result, more workloads were allocated to them and they tended to be busier while incurring long latencies. The customer considered two options: either they would purchase additional 96 FC drives, or they would purchase additional 48 NL drives and 16 SSD drives and use HP 3PAR Adaptive Optimization to migrate busy regions onto the SSD drives. They chose the latter and were pleased with the results (illustrated in Figure 7).



Figure 7. Improved performance after adaptive optimization



Before HP 3PAR Adaptive Optimization as described in the charts--and even though there are fewer NL drives --they incur greater IOPS load than the FC drives in aggregate and consequently have very poor latency (~40 ms) compared with the FC drives (~10 ms). After HP 3PAR Adaptive Optimization has executed for a little while, as shown in the charts on the right, the IOPS load for the NL drives has dropped substantially and has been transferred mostly to the SSD drives. HP 3PAR Adaptive Optimization moved ~33 percent of the IOPS workload to the SSD drives even though that involved moving only 1 percent of the space. Performance improved in two ways: the 33 percent of the IOPS that were serviced by SSD drives got very good latencies (~2 ms), and the latencies for the NL drives also improved (from ~40 ms to ~15 ms). Moreover, the investment in the 16 SSD drives permitted them to add even more NL drives in the future, because the SSD drives have both space and performance headroom remaining. <http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-0867ENW.pdf>

QUESTION 3

HP 3PAR Remote Copy is supported in synchronous and asynchronous periodic modes. Which protocol is supported only by asynchronous periodic replication?

- A. FCIP
- B. iSCSI
- C. FCoE
- D. FC

Correct Answer: A

<http://h20195.www2.hp.com/v2/GetPDF.aspx%2F4AA3-3053ENW.pdf> Multi-protocol support With Native IP as well as



Fibre Channel (FC) support, HP 3PAR Remote Copy Software delivers out-of-the-box connectivity over your IP network, enabling you to replicate data more cost-effectively by leveraging your existing infrastructure. Achieve robust DR without the expensive converters and management of a separate, special-purpose infrastructure.

Connectivity choices HP 3PAR Remote Copy offers two native methods of connectivity in order to satisfy the varying business or technical needs of users: traditional Fibre Channel and TCP/IP over Gigabit Ethernet. With suitable switches, Fibre Channel over IP(FCIP) is also supported, allowing asynchronous periodic Remote Copy over longer distances without introducing GigabitEthernet into the SAN.

[http://webcache.googleusercontent.com/search?](http://webcache.googleusercontent.com/search?q=cache:TVcyLxsMW8AJ:h20195.www2.hp.com/V2/GetPDF.aspx%252F4AA3-8318ENW.pdf+andcd=1andhl=pt-PTandct=clnkandgl=pt)

[q=cache:TVcyLxsMW8AJ:h20195.www2.hp.com/V2/GetPDF.aspx%252F4AA3-8318ENW.pdf+andcd=1andhl=pt-PTandct=clnkandgl=pt](http://webcache.googleusercontent.com/search?q=cache:TVcyLxsMW8AJ:h20195.www2.hp.com/V2/GetPDF.aspx%252F4AA3-8318ENW.pdf+andcd=1andhl=pt-PTandct=clnkandgl=pt)

QUESTION 4

A customer is upgrading their infrastructure and plans to migrate their SAN traffic to their Ethernet network using FCoE. Which product will allow the customer to use their HP EVA 4400 on their new infrastructure?

- A. HP MPX200 Multifunction Router
- B. HP E2520 switch series
- C. HP SN6000 Fiber Channel Switch
- D. HP CN1100E Dual Port Converged Network Adapter

Correct Answer: A

SAN Design Reference Guide pp39 FCoE fabric topologies FCoE technology allows you to converge Ethernet and Fibre Channel technology, providing significant cable, adapter, and switch consolidation. All HP-supported Fibre Channel topologies are supported integrated with FCoE at the Fibre Channel fabric edge. HP also supports end-to-end FCoE solutions for the P63xx/P65xx EVA storage systems with the FCoE target interface and P6000 (formerly EVA) storage using the MPX200 Multifunction Router. For more information about FCoE.

QUESTION 5

A company currently has 800 virtual machines with 300 TB data. Seventy percent of the servers are at 85% idle. The customer needs to reduce the overall cost of present and future storage upgrade requirements by at least 25% while reducing power and cooling costs.

What should be done to properly size each tier in an HP StoreServ Adaptive Optimization multi-tier solution?

- A. Establish capacity ratios in SSD and FC tiers to meet baseline performance requirements.
- B. Run the 3PAR System Reporter to ensure sufficient regional density I/O in each tier
- C. Configure maximum IOPS for the NearLine tier to reduce costs by the desired percentage.
- D. Estimate the amount of 1TB licenses required for automatic tier movement.

Correct Answer: A

<http://www.certificationexplorer.com/Documents/HP0-J64.pdf>



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