



HP0-J64^{Q&As}

Designing HP Enterprise Storage Solutions

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QUESTION 1

You are designing an HP 3PAR StoreServ 7000 solution for an enterprise customer with a broad spectrum of UNIX server and Brocade switch technologies.

Many applications are supported on older hosts that have been in production for many years. There are concerns with current operating system level and firmware levels. Which approach should you use to provide upgrade information to the customer?

- A. Configure the array with an earlier release of the HP 3PAR InForm OS to ensure compliance in older enterprise environments.
- B. Collect sample server and SAN information and build a configuration report with HP Single Point of Configuration Knowledge (SPOCK) that depicts minimal supported release levels.
- C. Provide the customer with access to Product QuickSpecs and the HP SAN Design Guide to assist with verifying integration compliance
- D. Utilize HP 3 PAR Host Explorer to verify current host configuration compliance specifications

Correct Answer: B

<http://h20272.www2.hp.com/>

Welcome to the Single Point of Connectivity Knowledge (SPOCK) website. SPOCK is the primary portal used to obtain detailed information about supported HP Storage product configurations.



Explore HP 3PAR StoreServ Storage Interoperability

- » HP 3PAR StoreServ 10000 Storage was previously known as HP P10000 3PAR Storage System.
- » Storage array models 10400 and 10000 were previously known as P10000(V400) and P10000(V000) respectively.
- » HP 3PAR OS 3.1.1 was previously known as InForm OS 3.1.1.
- » For Recovery Manager products (RMV, RME, RMS, RMO) and other host-based product supported configurations, please refer to the [3PAR Array Software page](#).

	AIX	IBM Virtualization	Apple Mac OS X	Citrix XenServer	HP-UX	HP Virtual Machines	Mainframe	MPE/iX	Netware	NonStop OS	OpenVMS	Oracle Linux	Red Hat	Red Hat Virtualization	SGI-IRIX	Solaris	SUSE	SLES Virtualization	Tru64 Unix	Ubuntu	Virtual Server	VMware	Windows 2012	Windows 2008	Windows 2003	Windows XP Pro	Windows 2000	Windows NT 4.0
10800 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10800 10Gb FCoE													✓										✓					
10800 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
10400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
10400 10Gb FCoE													✓										✓					
10400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7450 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7450 10Gb FCoE													✓										✓					
7450 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7400 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7400 10Gb FCoE													✓										✓					
7400 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
7200 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			
7200 10Gb FCoE													✓										✓					
7200 10Gb iSCSI				✓								✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓			
T800 FC	✓	✓		✓	✓						✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓			

http://h20272.www2.hp.com/Pages/spock2Html.aspx?htmlFile=sw_array_3par.html



HP Storage SPOCK

» SPOCK Home	3PAR Array Software
» Announcements	SPOCK Home > Software > 3PAR Array Software
SAN Compatibility	HP 3PAR Operating System Software: Array Software
» Compatibility Tool	» HP 3PAR StoreServ Block Storage Drivers in OpenStack (112 KB PDF, 2013_10_17)
» View by Array	» HP 3PAR SmartStart (10 KB PDF, 2013_10_14)
» View by OS	» HP 3PARInfo (10 KB PDF, 2013_10_10)
» View by NAS	» HP 3PAR CLI Remote Client (14 KB PDF, 2013_11_13)
» View by FC Switch	» HP 3PAR Cluster Extension (CLX) for Linux (245 KB PDF, 2012_03_28)
» View by FCoE Switch	» HP 3PAR Cluster Extension (CLX) for Windows
» View by SAS Switch	
» View by Router	
» View by CNA	
» View by HBA	
» My SPOCK	
» Configuration Set ZIP Files	

QUESTION 2

A regional market leader in direct financial services runs several call center across the United States and is opening a number of new call center in the near future. The client uses Windows XP on dedicated workstations. The IT infrastructure consists of numerous HP Proliant DL360 G5 and HP Proliant DL360 G6 servers running VMware ESX or SUSE Linux for the database server direct-attached storage and HP Ultrium tape drives. They want to consolidate the infrastructure.

You are meeting with the IT director. Which technical benefits should you emphasize in your presentation of a new solution? (Select two)

- A. faster time-to-market for new services
- B. decreased operational expenditure (OPEX)
- C. decreased rack space and power usage
- D. greater service margin
- E. reduced time-to provision systems

Correct Answer: BE

<http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA0-0559ENW.pdf> Simplify your data center; make it more flexible, efficient, and less expensive to operate. Tom Joyce, GM and SVP HP Converged Systems, explains how HP Converged Infrastructure can turn your IT into a business advantage.

QUESTION 3



Your city government customer has been using HP Eva 6400s for the last three years. While the arrays have performed fairly well and the city particularly likes the ease of management, they have found several situations where the arrays were lacking in functionality. To support multiple organizations within the city government, they have had to utilize multiple arrays to ensure separation of management and data access. The city also had some issues handling their utility billing and VMware environments in a single array and added a separate array to ensure adequate performance.

Which HP Storage solution should you recommend to meet the requirements of city?

- A. HP StoreVrtual
- B. HP StoreAll
- C. HP P9500
- D. HP 3PAR StoreServ

Correct Answer: D

StoreServ and HP 3PAR can start small and grow affordably and non-disruptively with multi-tenant and federated, efficient reduce acquisition and operational costs by 50% and autonomically save up to 90% of administrator time. Help for novice storage users in a Windows, VMware or Linux environments for self-installation.

QUESTION 4

During a customer proposal meeting for a 900 TB HP 3PAR StoreServ 10800, you discover an opportunity to address the lack of disaster recovery for two very critical applications that both require approximately 90 TB of usable storage each. The customer is considering a competitive disaster recovery (DR) solution to meet this requirement in a more cost-efficient manner than a second array.

Which HP 3PAR StoreServ architectural feature should you position to address this customer need?

- A. Specify an HP 3PAR StoreServ Synchronous Long Distance configuration utilizing an HP 3PAR StoreServ 7200 synchronous configuration for the best possible RPO and RTO.
- B. Highlight the benefits of the HP 3PAR unified architecture and propose a minimally-configured HP 3PAR StoreServ 7200 to provide a cost-effective disaster recovery (DR) solution.
- C. Propose an HP 3PAR StoreServ solution that highlights the benefits of duplicated storage.
- D. Propose a second HP 3PAR StoreServ 10400 with a 250 TB replication license to cost-effectively meet the disaster recovery (DR) requirement.

Correct Answer: C

<http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA3-8318ENW.pdf> Replication solutions for demanding disaster tolerant environments HP 3PAR Remote Copy software

Long-distance disaster recovery

Disaster recovery requirements that include low RTOs and zero-data loss RPOs pose a significant challenge.

Adding a requirement for a distant disaster recovery site on the opposite side of a continent rather than in an adjacent town greatly compounds these challenges and the complexity of typical solutions.

PDF Replication solutions for demanding disaster tolerant environments, pp 10 e 11 Synchronous long-distance



topology

Synchronous long distance combines the ability to make replicas created using synchronous mode over a high-speed low-latency network along with the high-link latency replication capability offered by asynchronous periodic mode to provide

a long distance replication solution. An SLD topology has the potential of delivering a zero data loss RPO to the remote asynchronous periodic replication site. This is accomplished by using two backup storage servers: one located near the

primary InServ using Synchronous mode (the sync array) and a distant storage server using asynchronous periodic mode (the disaster recovery array). In addition to the HP 3PAR Remote Copy connections from the primary array to the two

backup arrays, a passive asynchronous periodic link is configured from the sync array to the disaster recovery array (see figure 8). This is the only HP 3PAR Remote Copy technology that supports replicating the same Remote Copy primary

volumes from a source array to two separate target arrays. Only a single Remote Copy volume group (consistency group) is supported in an synchronous long distance topology.

The primary intent of the SLD topology is to provide users with a way of potentially achieving an RPO of zero at the distant asynchronous periodic disaster recovery array in the event a disaster renders the primary array down. If a disaster

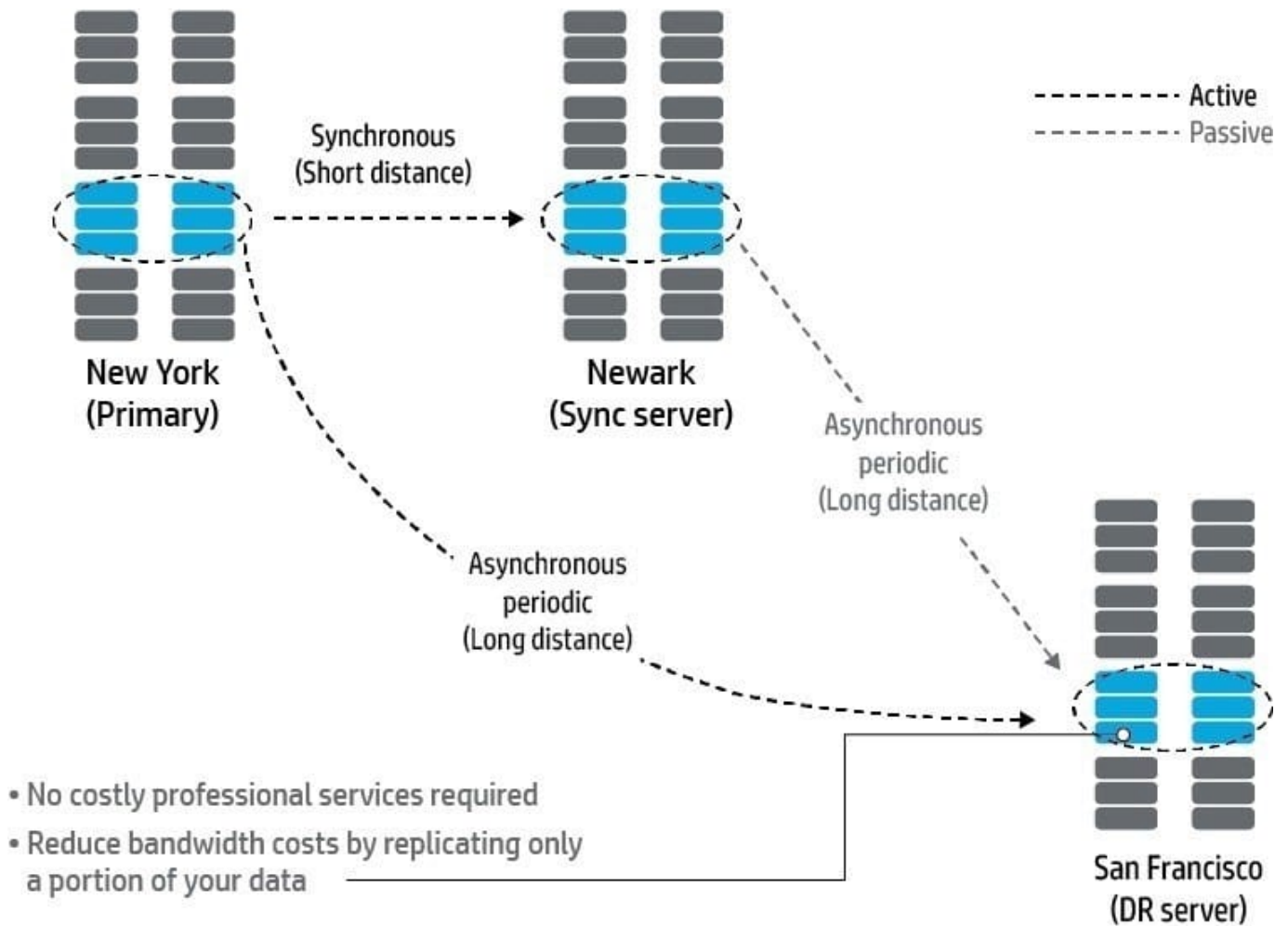
takes the primary storage array down, on failover to the sync array, the passive asynchronous periodic link between the sync array and the disaster recovery array is activated and any data that was written on the sync array but that has not

yet made it to the disaster recovery array is sent from the sync array to the disaster recovery array, bringing the disaster recovery array up to date with the last write that occurred to the primary array. After the disaster recovery array has been

made consistent with the state of the primary storage array at the time of failure, operations may be continued using the disaster recovery site with no loss of data suffered (RPO = 0) (or operations can proceed from the sync array if that is

desired). The normally passive asynchronous periodic link between the sync array and the disaster recovery array is then reversed so updates to the disaster recovery array are replicated back to the sync array albeit in asynchronous periodic

mode. When the original primary array is restored to service, its Remote Copy links are reversed and used to synchronize the primary server's volumes with changes that occurred during the outage before resuming normal service.



QUESTION 5

Which HP 3PAR StoreServ functionality or component should be highlighted during a proposal presentation to support the customer goal to run a 24x7 business?

- A. HP 3PAR StoreServ Persistent Ports
- B. HP 3PAR 2-port 10 Gb/S iSCSI/FCoE SAN
- C. HP 3PAR StoreServ Data At Rest Encryption
- D. HP 3PAR Virtual Service Processor

Correct Answer: A

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