



# HP0-J64<sup>Q&As</sup>

Designing HP Enterprise Storage Solutions

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## QUESTION 1

A company is replacing their outdated storage environment with an HP 3PAR StoreServ 7000 at the primary site and also in their co-location facility. These HP 3PAR 7000 Software Suites are included in the proposed package:

-

HP 3PAR 7000 Operating System Software Suite

-

HP 3PAR 7000 Reporting Software Suite

-

HP 3PAR 7000 Application Software Suite for VMware

-

HP 3PAR 7000 Replication Software Suite

A.

Taking a time-consistent snapshot of their Oracle volumes every 4 hours to protect against corruption

B.

Reduction in the amount of physical storage needed with the uses of thin technologies

C.

Autonomic storage tiring as their image files become dated

D.

Replication of all critical data to the co-location site for disaster recovery

E.

Frozen, point-in-time copies of employee data for compliance

What can be accomplished with the proposed software solution? (Select two)

Correct Answer: AE

[http://www.hp.com/hpinfo/newsroom/press\\_kits/2012/HPDiscoverFrankfurt2012/3PAR7000\\_Op\\_System\\_DS.pdf](http://www.hp.com/hpinfo/newsroom/press_kits/2012/HPDiscoverFrankfurt2012/3PAR7000_Op_System_DS.pdf)

Software suites for HP 3PAR StoreServ 7000 Storage HP 3PAR Operating System Software Suite: (Option B) Required for all new HP 3PAR StoreServ 7000 systems, this foundational software suite gives you everything you need to get up and running quickly and efficiently. This suite includes the HP 3PAR Operating System, Management Console, Host Explorer, and SmartStart software designed to get you off to a quick start with your new HP 3PAR StoreServ 7000 system. It also includes all of the platform's thin software offerings Thin Provisioning, Thin Conversion, and Thin Persistence. Other highlights of this suite include Full Copy, autonomic rebalancing capabilities that help you optimize the use of future capacity expansions, and support for standard multi pathing software for high availability in clustered environments. A 180-day license for online import is included to enable migration from HP EVA storage



This optional suite bundles: HP 3PAR Replication Software Suite (Proposed package) This optional suite bundles HP 3PAR Virtual Copy with Remote Copy Software, both also sold separately for all HP 3PAR StoreServ 7000 models. Included in this bundle is Peer Persistence, which enables peer federation for VMware clusters to improve overall availability. Licensed based on system capacity

HP 3PAR Reporting Software Suite (Proposed package) Enhance system visibility and reporting capabilities with this optional suite, which includes HP 3PAR System Reporter Software and the 3PARInfo application, licensed on a per-system basis HP 3PAR Application Software Suite for VMware (Proposed package) Everything you need to make your VMware environment more agile and efficient including HP 3PAR Recovery Manager for VMware, Host Explorer for VMware, VASA support, and three essential plug-ins: the VMware Site Replication Manager (SRM) Adapter, the HP 3PAR VAAI plug-in, and the 3PAR management plug-in for VMware View. This suite is optional and licensed on a per-system basis

HP 3PAR Data Optimization Software Suite HP 3PAR Security Software Suite (option E) HP 3PAR Application Software Suite for Exchange HP 3PAR Application Software Suite for Oracle (option A) HP 3PAR Application Software Suite for SQL

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## QUESTION 2

Which HP Service tool performs an operating system binary event log analysis?

- A. ISEE
- B. WEBES
- C. RISS
- D. OSEM

Correct Answer: B

Web Based Enterprise Services

WEBES is a tool suite aimed at preventing or reducing your system's down time. The tool suite has the following components:

SEA (for operating system binary event log analysis). If you have a warranty or service contract with HP you are entitled to these tools free of charge. You must, however, upgrade the tools at least once a year, because the software expires after one year

<http://www8.hp.com/us/en/support/svctools/webes.html>

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## QUESTION 3

An advantage of using HP StoreOnce Catalyst with the HP StoreOnce B6200 Backup System is a reduction in bandwidth between which two components?

- A. the HP StoreOnce B6200 Backup System and the tape library
- B. the media server and the client
- C. the HP StoreOnce B6200 Backup System and the client



D. the media server and the HP StoreOnce B6200 Backup System

Correct Answer: D

<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-4480ENWandcc=usandlc=en> [http://www.conres.com/stuff/contentmgr/files/0/a1d681554de12de089adc5229589f778/download/hp\\_storeonce\\_catalyst\\_best\\_practice\\_release1.pdf](http://www.conres.com/stuff/contentmgr/files/0/a1d681554de12de089adc5229589f778/download/hp_storeonce_catalyst_best_practice_release1.pdf)

#### QUESTION 4

A customer wants to implement a new backup solution. The environment is predominantly Fibre Channel with Windows 2008, Linux hosts, and a number of HP-UX hosts attached to a 10 GbE network. They have expressed an interest in the HP StoreOnce technology and its integration with HP Data Protector.

When designing an HP StoreOnce solution for this environment, what needs to be considered?

- A. Catalyst integration is only supported on Windows and HP-UX hosts.
- B. Catalyst gateway are used on the HP-UX hosts.
- C. Linux hosts requires Catalyst gateway
- D. Fibre Channel hosts may only use VTL emulation.

Correct Answer: D

[http://h20628.www2.hp.com/km-ext/kmcsdirect/emr\\_na-c03478346-1.pdf](http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c03478346-1.pdf) <http://h20195.www2.hp.com/V2/GetPDF.aspx%2F4AA4-1776ENW.pdf> [http://www.hp.com/hpinfo/newsroom/press\\_kits/2012/HPDiscover2012/HPSD\\_Discover\\_Store\\_Once\\_Fact\\_Sheet.pdf](http://www.hp.com/hpinfo/newsroom/press_kits/2012/HPDiscover2012/HPSD_Discover_Store_Once_Fact_Sheet.pdf)

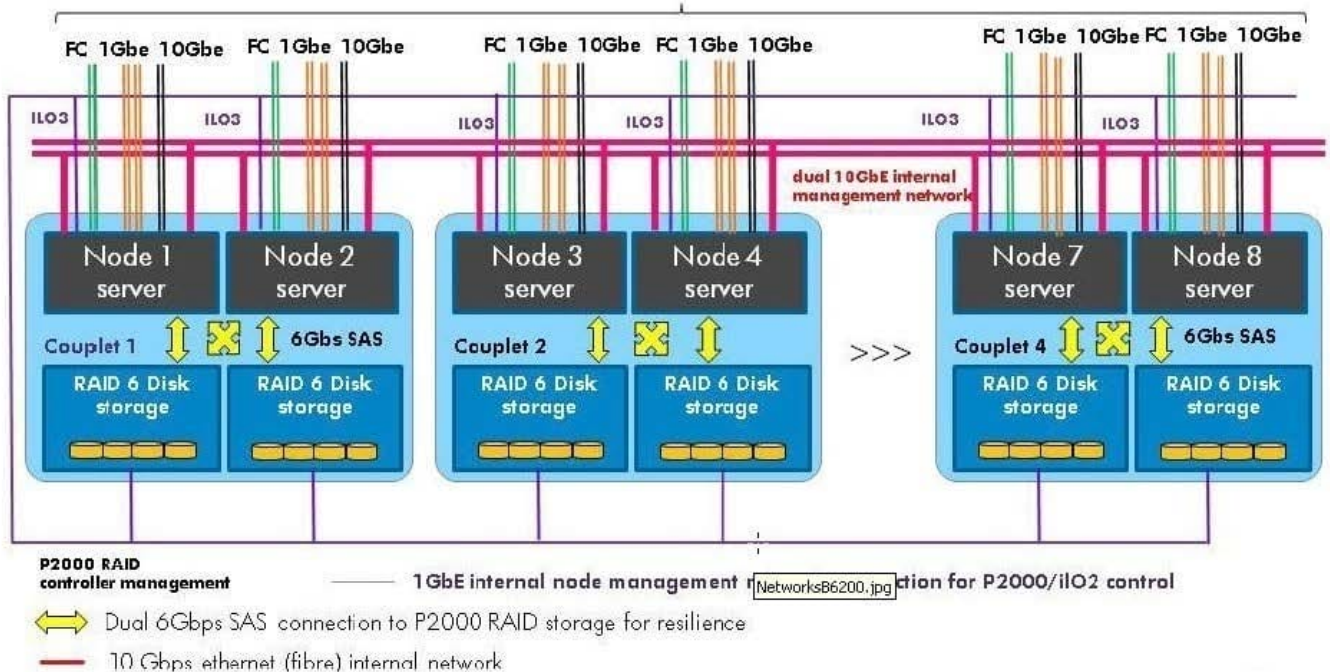
Comparison table of emulations; showing key features and when to use

Emulation	Key Features	Best used in	Comments
Virtual Tape	Uses virtual tape drives and virtual slots to emulate physical tape libraries	Enterprise FC SAN environment (B6200 and 4xxx series). HP StoreOnce also supports iSCSI VTL (4xxx and 2xxx series)	Tried and tested, well understood but lacks sophistication. Uses NetBackup Robot and Drives device type
NAS (CIFS/NFS shares)	NAS shares can be easily configured and viewed by the operating system	Specific environments that do not support tape emulation backup or prefer to backup directly to disk. In some cases the licensing may be lower cost for NAS shares as a backup target.	This is a NAS target for backup - not recommended for random NAS file type access. Uses NetBackup Basic Disk device type
OST with StoreOnce Catalyst	NetBackup has total control over the HP StoreOnce appliance, providing source based deduplication, replication control, improved DR etc.	Environments that require a single management console for all backup and replication activities and the ability to implement federated deduplication*	Requires HP OST 2.0 plugins to be installed on NetBackup. Media servers Uses NetBackup OpenStorage device type

Each node has two 8Gb FC connections (used for VTL only), two 10GbE and four 1GbE Ethernet connections (used for NAS shares or Catalyst stores). Figure 4 illustrates these physical connections.



## Resilient user connections for management/data



## QUESTION 5

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

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