



# HP0-J67<sup>Q&As</sup>

Architecting Multi-site HP Storage Solutions

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**QUESTION 1**

You are tuning a customer HP StoreOnce Backup System and notice they are running backups 20 hours a day. As a result, backup jobs are running during the same time as replication jobs. What can you do to limit the available bandwidth and not saturate the link with replication traffic?

- A. Enable multiplexing and set concurrency to 1.
- B. Enable concurrency control.
- C. Map multiple source libraries into a single target library.
- D. Enable compression.

Correct Answer: B

Hewlett-Packard StoreOnce B6000 Configuration Manual Page 40: "7. The use of "concurrency control" is not necessary if replication is run at separate times from backups and housekeeping. However, if the customer wants to run replication at the same time as backups or housekeeping, they can use concurrency control to limit the available bandwidth so as not to saturate the link with replication traffic"

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**QUESTION 2**

Your VMware customer has a requirement for transparent failover between campus data centers. Which HP 3PAR StoreServ feature enables the customer to fulfill this requirement?

- A. Synchronous Long Distance replication
- B. Peer Persistence
- C. One-to-One replication
- D. Port Persistence

Correct Answer: B

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**QUESTION 3**

Your customer wants to replicate backup data from branch office to a primary data center where an HP StoreOnce backup system using HP Storeonce catalyst is located. The main backup application is HP Data Protector 7.01. The file and application servers have Windows 2003, Windows 2008 and SUSE LINUX 9 and 10 installed. The file and application servers are a mixture of 32 and 64 bit Windows and Linux operating systems. As a long term strategy the customer wants to integrate all services to the primary data center. No additional hardware can be purchased for the branch office and complexity should be minimized.

Which deduplication type is optimal for the customer?

- A. Target side
- B. Application side



- C. Source side
- D. Server side

Correct Answer: D

#### QUESTION 4

A customer uses HP 3PAK System Reporter and Adaptive Optimization with an HP 3PAR StoreServ 10000 Storage System that runs HP 3PAR OS 3.1.1. The customer is planning to upgrade the storage system to HP 3PAR OS 3.1.2. The customer needs to use System Reporter and Adaptive Optimization on the storage system after the upgrade.

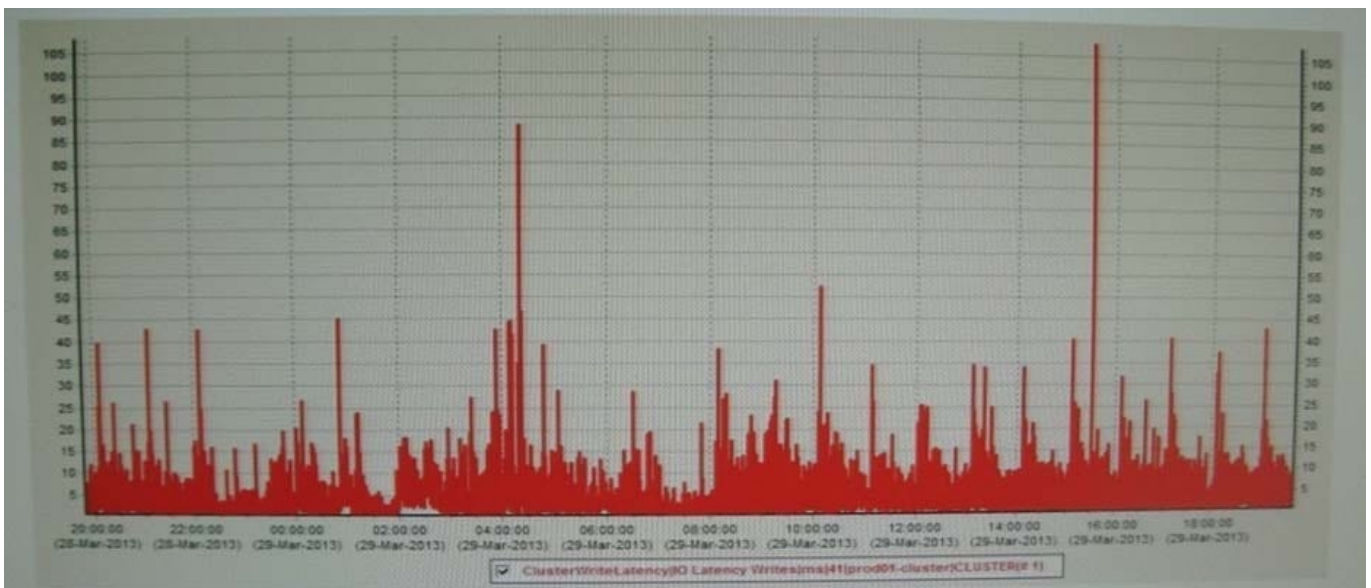
Which complications will the customer encounter after performing the upgrade? (Select two)

- A. System Reporter backups must be reconfigured
- B. System Reporter data does not migrate
- C. Adaptive Optimization is disabled
- D. System Reporter databases become corrupt
- E. Adaptive Optimization must be reconfigured.

Correct Answer: BE

#### QUESTION 5

Refer to the exhibit:



A customer reports poor application performance on their Oracle database, which is on an existing two node provides you with the chart in the exhibit. Which assumption can you make based on this graph?



- A. Hard drive background tasks cause a bottleneck on the cluster.
- B. Asynchronous replication from this cluster causes a bottleneck.
- C. Database read operations cause a bottleneck on the cluster
- D. Writing archive logs causes a bottleneck on the cluster

Correct Answer: A

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#### QUESTION 6

You are designing an HP 3PAR StoreServ solution that replicates to a second HP 3PAR StoreServ array at the customer secondary data center, which is 20 miles away. You determine that the round trip latency between sites is 5ms. Which replication solution should you recommend?

- A. Asynchronous Real Time
- B. Synchronous Long Distance
- C. Synchronous
- D. Asynchronous Periodic

Correct Answer: D

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#### QUESTION 7

A retail customer has primary data centers, distribution centers, and retail stores. The retail locations are smaller sites that have less than 2 TB of data that need to be highly available. Each location is consolidating between six and twelve physical servers into a virtual cluster running on two HP ProLiant DL380 Gen8 servers.

The customer needs a low-cost storage solution that they can use at each retail location and can scale using similar technology for the distribution centers. The solution also needs to integrate with VMware and provide future replication with no additional cost.

Which HP Storage solution should you recommend?

- A. HP EVA
- B. HP 3PAR StoreServ
- C. HP StoreVirtual
- D. HP MSA

Correct Answer: D

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#### QUESTION 8

A leading automotive technology company wants to increase the performance and capacity of the storage infrastructure



that supports the design and manufacture of its line of Formula 1 racing cars. The company is also interested in safeguarding its mission-critical data and eliminating the threat of business disruption. Due to the massive engineering and technical effort required to create a new race car design and to enable regular delivery of upgraded parts to the race track while maintaining a competitive edge, it is necessary to have advanced applications running on a high-performance IT infrastructure. The company operates out of two data centers. The centers support a Plant Lifecycle Management database, an Enterprise Resource Planning (ERP) system, and various trackside systems to set up the race car and aid race strategy. In addition, the centers run applications for Computer-Aided Design (CAD) Computer-Aided Manufacturing (CAM), and Computational Fluid Dynamics (CFD) packages. The company has deployed Oracle and SQL databases, VMware virtual machines, email, and all other applications on an HP 6400 Enterprise virtual Array (EVA). The EVAs automatically replicate between the two data centers to guard against failure. The EVAs are aging, applications are more sophisticated, data volumes have grown exponentially, and bottlenecks in the storage system are now having a significant effect on the performance of the simulation and analysis tools that are vital to the company's competitive position. The data storage problem has reached a point where the company is forced to store primary data at the secondary site causing the loss of their disaster recovery capability.

The company's top five IT Improvement goals are:

- Reduce complaints about storage system availability.
- increase support for sophisticated design and manufacturing applications.
- Provide a robust replication capability between data centers.
- increase storage utilization while deploying additional capacity.
- Simplify operations during peak workloads.

Moreover, the company's top three business benefit goals are:

- Ensure rapid data retrieval to aid in quick decision making.
- Protect mission-critical data and ensure business continuity.
- Recover costs from existing infrastructure, thus providing increased IT funds for additional projects.

You are planning to use HP StoreOnce Backup Systems and HP StoreOnce Catalyst to replicate data to the primary data center after a Formula 1 race and then to the secondary data center.

Which information is relevant to size this solution component? (Select two.)

- A. which type of application data is used at the Formula 1 race track
- B. how many users will access the data during the weekend
- C. how much data has changed during a race weekend
- D. which online storage is used at the race track and data center
- E. which hypervisor is used on the servers at the race track

Correct Answer: BC

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## QUESTION 9

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You are proposing an HP StoreOnce Backup System solution.

Which tuning should be planned to performance and meet the customer business goals?

- A. Set up appendable pools.
- B. Configure multistreaming.
- C. .Enable multiplexing
- D. Disable housekeeping.

Correct Answer: B

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## QUESTION 10

Refer to the scenario.

A university provides liberal arts training to 2,500 students in 68 classrooms and provides a growing suite of IT services that encompass dorm rooms and classrooms. All 2,500 students are provisioned an HP EliteBook Tablet PC to access



these services. Students use these tablet PCs for taking notes, handling documents, communicating with each other and with instructors, and participating in distance-education classes. Additionally, by using their tablet PCs as thin clients,

science and engineering students leverage virtual desktop infrastructure (VDI) and HP Remote Graphics Software to access applications that run on high-powered HP blade servers. All 68 classrooms are multi-media equipped, enabling

instructors to record lectures for the college's closed circuit TV system.

The university has implemented enterprise content management (ECM) applications, including Microsoft SharePoint for document imaging and workflow for staff and faculty, as well as for external accrediting bodies.

Additionally, a recent initiative to implement voice-over-IP telephone communications on campus has started.

The compute environment is based on VMware vSphere using HP BL460c and BL680c G7 server blades in c7000 enclosures within two data centers. The university needs to develop computing solutions to address the following problems

and current initiatives:

- The current backup-to-tape environment creates downtime for backups of 6 to 12 hours.
- Each incoming class of 600 floods the registration system within the first hours after it opens. The server and network gridlock caused by this high workload prolongs the registration process by as much as one hour per student.
- Proof of concept is necessary for distance education involving large volumes of video and major bandwidth requirements.
- Top tier data must be replicated between two data centers over a 10 Gbps network. Disaster recovery has a recovery time objective (RTO) of 120 minutes and network utilization should be minimized.
- Seven TB of first tier data needs to be migrated from the current fibre channel storage solution to nearline storage.
- Second tier data requires deployment of a separate storage solution. The university's top four IT improvements goals are as follows:
  - Provide a robust replication capability between data centers.
  - Reduce server downtime with faster backups.
  - Retain more backup data in smaller disk space.
  - Increase efficiency, reliability, and ease of system administration. Moreover the college's top three business benefit goals are as follows:
    - Reduce student registration time.
    - Increase number of servers while minimizing the need for additional staff to support them.
    -

Utilize IT resources and staff as efficiently as possible. The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

In order to meet the technical requirements and solve some of the current problems that the customer is facing you propose a 4-node HP 3PAR StoreServ Storage array with an additional SSD tier. Which HP best practices should you follow?



(Select two.)

A.

Availability = Cage-level

B.

Availability = Magazine-level

C.

SSD CPG set size of 3+1

D.

SSD CPG set size of 2+1

E.

Growth increment = 4GB

Correct Answer: AC

Best practice: SSD CPGs should be of the RAID 5 type with a "Set size" of 3+1 by default. This will bring the best performance/capacity ratio. If maximum performance is required, use RAID 1.

Best practice: The growth increment should be set to the minimum value, which is 8 GB per node pair. On 2-node systems, set the value to 8 GB, on 4-node systems to 16 GB, on 6-node systems to 24 GB, and on 8-node systems to 32 GB.

In order to set the CPG growth increment to a lower value than the default, the "Show advanced option" box must be checked. Best practice: Availability should be left to "Cage-level" availability (the default option) if the system's configuration

allows for it. If not, it should be set to "Magazine-level" availability. This can be changed using the "Advanced options" checkbox of the StoreServ Management Console.

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## QUESTION 11

Refer to the scenario.

A university provides liberal arts training to 2,500 students in 68 classrooms and provides a growing suite of IT services that encompass dorm rooms and classrooms. All 2,500 students are provisioned an HP EliteBook Tablet PC to access

these services. Students use these tablet PCs for taking notes, handling documents, communicating with each other and with instructors, and participating in distance-education classes.

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classrooms are multi-media equipped, enabling instructors to record lectures for the college's closed circuit TV system.

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  - Retain more backup data in smaller disk space.
  - Increase efficiency, reliability, and ease of system administration. Moreover the college's top three business benefit goals are as follows:
    - Reduce student registration time.
    - Increase number of servers while minimizing the need for additional staff to support them.
    - Utilize IT resources and staff as efficiently as possible.

The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

What is required to license the top tier storage system in order to achieve the desired RTO?

- A. HP 3PAR Adaptive Optimization
- B. HP 3PAR Remote Copy
- C. HP 3PAR Online Import
- D. HP 3PAR Cluster Extension

Correct Answer: B

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**QUESTION 12**

Refer to the scenario.

A large publicly-traded motion picture exhibitor that is a leader in digital and 3D cinema deployments operates 233 theaters and more than 2,200 screens in small to mid-sized communities in 35 states around the United States. They rely on

MS Exchange Server 2010 for email. MS SQL Server 2010 for analyzing data about movies and theater-goers, and MS Excel 2010 for crunching numbers.

The company runs nightly incremental backups and a full weekly backup that consists of close to 7 TB of data which takes up 72 hours to complete. The quarterly backups add an additional 7 TB of data. Tapes are inventoried and transported

from the main data center to the disaster recovery site 150 miles away. The process of transporting tape cartridges to and from the Disaster Recovery site requires hours of daily work.

The company currently relies on an aging robotic tape library and a process that takes the nightly backup tapes offsite every morning. Additionally, the company keeps an inventory, and if a restore is necessary they have to retrieve the tapes

from the DR site and transport them to the main data center site. They have a 7 year data retention plan, and the tapes are expensive and not always reliable. Given the company's current system, if a full weekly backup fails over a weekend,

the re-run could take up to 10 hours, even if just one job failed.

The company has deployed a virtualized server infrastructure which runs VMware vSphere 5 on HP BladeSystem c7000 enclosures and BL460c servers interconnected with HP Virtual Connect Flex-10 10Gb Ethernet Modules as well as

several HP ProLiant DL380 servers. The company's top four IT improvements goals are as follows:

- replacing the aging robotic tape library
  - enabling replication of backed up data from the main data center to the disaster recovery site (150 miles)
  - retaining more backup data in smaller disk space
  - increasing efficiency, reliability, and ease of system administration
- Moreover the company's top three business benefit goals are as follows:
- increased confidence in disaster recovery
  - minimal disruption by backups during regular business hours
  - improved management of external audits

The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

How does an HP StoreOnce Backup solution meet the customer IT and business needs?

- A. Eliminates the need for tape backups for long-term archiving
- B. Multiplies the data, which is then replicated to a remote location



- C. Backs up the data via a WAN link
- D. Provides a bandwidth-effective replication to remote sites

Correct Answer: A

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### QUESTION 13

You are architecting an HP StoreOnce Backup System solution for a customer with a primary and a secondary data center on the same campus.

Backed up files server data should be replicated across data centers by VTL replication after a backup is completed.

Customer gives you these sizing requirements:

Backup of one files server with 6 partitions, 150GB each

Daily full backup

Daily change rate by less 1% of the original data

Backup application is Data Protector 7.01

Retention time of 120 days should be achieved

Uni-directional replication between sites

Which HP StoreOnce Backup System is most cost effective and meets customer requirements?

- A. HP StoreOnce 2620 Backup System
- B. HP StoreOnce 4210 Backup System
- C. HP StoreOnce 4220 Backup System
- D. HP StoreOnce 4420 Backup System

Correct Answer: A

Explanation:  $6 \times 150 = 0,9\text{TB}$  - first full bkp  $1\% \times 0,9 = 0,009\text{TB}$   $0,9 + 0,009 \times 120 = 1,068\text{TB}$  total 1,068TB The smallest model is SO2620i - 2,5TB usable

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### QUESTION 14

Which HP 3PAR StoreServ feature improves storage array resiliency?

- A. Persistence Ports
- B. Virtual Lock
- C. Virtual Copy
- D. Virtual Domains



Correct Answer: A

"To provide greater resiliency and to avoid dependency on host multi-pathing software, HP 3PAR StoreServ has introduced a new feature called Persistent Ports."

-in HP 3PAR High Availability

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#### QUESTION 15

While discussing a remote replication solution consisting of two HP 3PAR StoreServ arrays, the customer asks you about performance penalties when implementing synchronous replication to a second HP 3PAR StoreServ array. How should you respond?

- A. Synchronous replication affects write performance on the source array.
- B. Synchronous replication affects both read and write performance on the source array.
- C. Synchronous replication affects read performance on the source array.
- D. Synchronous remote replication does not affect performance on the source array.

Correct Answer: A

**How does synchronous periodic mode work in operation? In synchronous mode, a host-initiated write (1) is performed first on the primary storage array (2). The write request is then concurrently forwarded (3) to the secondary or backup storage array (4) before acknowledging the forwarded write back to the primary array (5). Finally the primary array acknowledges (6) the host server that the data write has been completed. Additional steps, or latency, are required when synchronous mode is used because on both the primary and secondary storage arrays, data is written to the caches of two nodes as well as the time it takes (round trip) to forward the write request to the secondary array. The data written to cache at both storage arrays is additional redundancy put in place in case one node fails before the write can be copied to physical disk at either site. The host server write is acknowledged after the active cache update completes and the backup acknowledgement is received.**

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