



HP0-J67^{Q&As}

Architecting Multi-site HP Storage Solutions

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QUESTION 1

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



QUESTION 2

Your customer has made a strategic decision to implement a DR solution that will incorporate an active/active bi-directional replication configuration. The two sites in Q will have live applications running at both locations, and both sites will have a fluid server estate with new systems coming online on a regular basis. Additionally, there is an aggressive server replacement schedule keeping instep with the HP server generation roadmap. All of the customer servers will utilize Boot from SAN. The sites are 55 km apart with a single 1G Ethernet link that is at 50% utilization. There is no SLA. The customer has already purchased one pair of MPX200 FCIP gateways per site.

What is a potential effect of this configuration? (Select two.)

- A. The link speed will need to be upgraded to 10Gb
- B. WAN instability will cause fabric instability.
- C. Multiple 1Gb links will form a single 10Gb link.
- D. LSANs will maintain fabric stability.
- E. The fabric will be extended across the two sites.

Correct Answer: BE

QUESTION 3

When sizing a solution involving deduplication, how does the rate of changed blocks between backups affect the deduplication ratio?

- A. No changed blocks between backups result in a deduplication ratio of 0%.
- B. The lower the block change rate, the higher the deduplication ratio.
- C. Deduplication ratio is only affected by the backup software.
- D. The rate of changed blocks does not affect deduplication efficiency.

Correct Answer: B

Architecting Multi-site HP Storage Solutions page 258 - The Lower the "\\Block Change Rate\\" of the backup data the higher the deduplication ratio.

QUESTION 4

You are performing a demo of an HP StoreOnce 2620i Backup System solution in combination with HP Data Protector. All best practice guidelines for the VTL and Data Protector have been adhered to. However, you receive the following error when formatting a cartridge in a previously-created VTL.

[Normal] From: MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:09 PM Tape0:0:0:0C

Initializing new medium: "[4E94F289] 4E94F289"



[Major] From: MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:10 PM [90:51] Tape0:0:0:0C Cannot write to device ([87] Wrong parameter.)

[Major] From: MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:10 PM Initialization of medium failed. [Normal] From MMA@demo.local "Drive_Demo" Time: 4/23/2013 10:26:14 PM Ejecting medium Tape0:0:0:0C".

What must you do to perform a successful demo?

- A. Add an iSNS-Server in the media Server iSCSI configuration, and restart the iSCSI service.
- B. Disable "Automatically discover changed SCSI address" for the VTL drives, and rescan the library.
- C. Disable "SCSI Reserve /Release (drive)" for all of the drives and robotics in the environment and rescan the library.
- D. Change the maximum transfer length of the iSCSI initiator in regedit, and restart the media server.

Correct Answer: C

QUESTION 5

A client with high volume data requirements wants a new storage environment. The business can allow for an RTO of 45 minutes and an RPO of 15 minutes. The client has a one-year data retention period during which data can be called upon at any given time. You propose four HP 3PAR StoreServ 7400 Storage Systems.

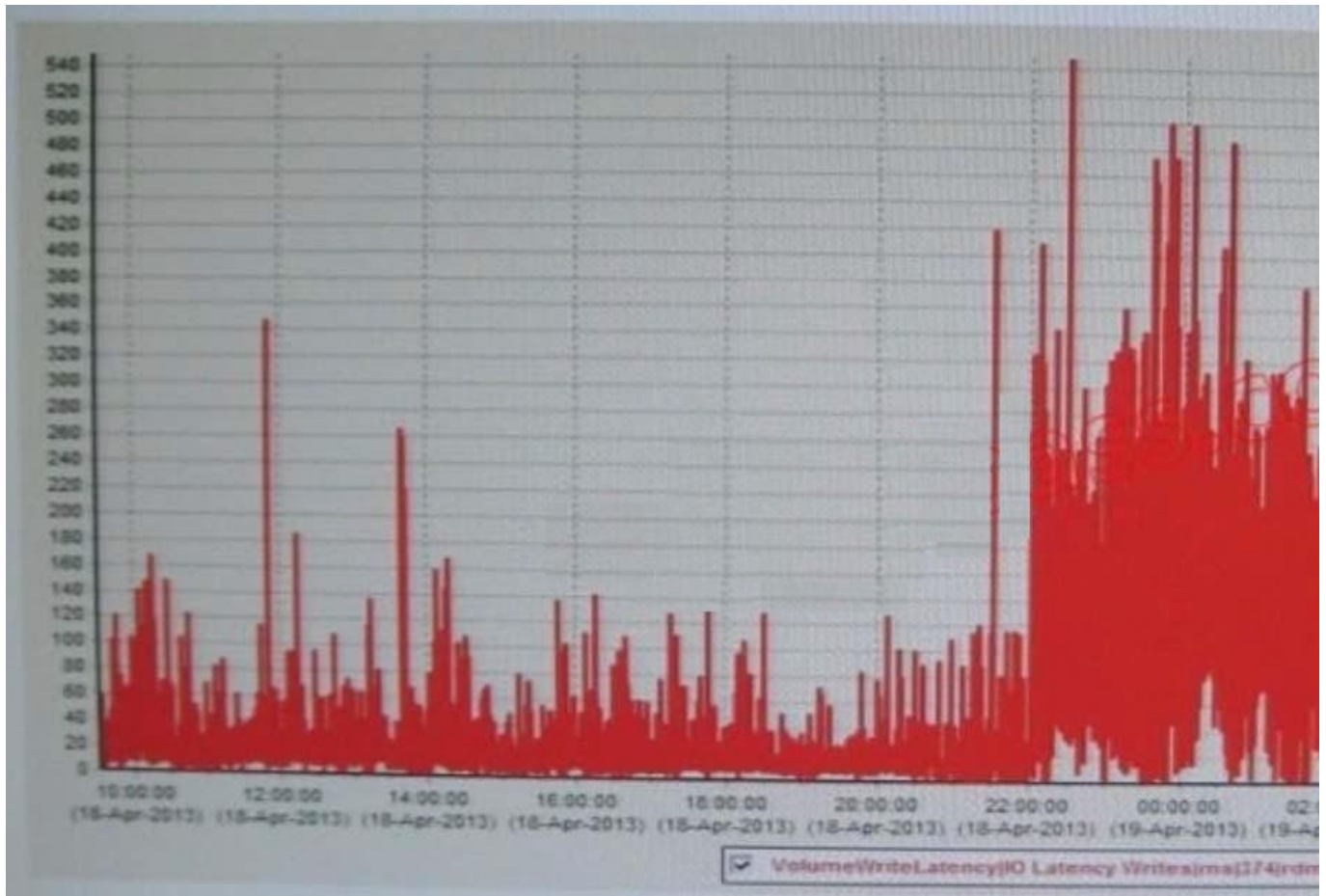
Which HP 3PAR software suites should you recommend? (Select two.)

- A. Replication
- B. Data Optimization
- C. Thin
- D. System Tuner
- E. Security

Correct Answer: AB

QUESTION 6

Refer to the exhibit.



A customer reports poor application performance on their OLTP database, which is on an existing two-node HP P4500 Virtualization provides you with the chart in the exhibit. Which conclusion can you draw from this graph?

- A. Maximum acceptable response time is reached during business hours.
- B. Maximum acceptable response time is reached during backup.
- C. Optimal response time is not reached during the whole measure period.
- D. Optimal response time is reached during business hours.

Correct Answer: C

QUESTION 7

A large regional telecommunications company specializing in mobile services has experienced rapid growth.

They currently have 149 million subscribers in 11 markets, including 4 million subscribers locally. The year-on-year data growth between 2003 and 2012 was approximately 15%. The projected growth for 2013 and the next several years is 30% annually.

The proposed mission critical solution needs to work with the existing application modules and deliver a minimum data transfer rate of 6.5 TB per hour and a capacity of 120 TB. Financially, the solution has to offer low Total Cost of Ownership (TCO) over the next 5 years, and solution capacity has to accommodate the performance and growth model.



Which mission critical backup solution and support level should you propose? (Select two.)

- A. HP StoreOnce 4430 with two upgrade kits
- B. HP StoreOnce B6200 with three 48TB expansion kits
- C. HP 6-hour call-to-repair support
- D. HP same-day hardware support
- E. HP 24/7 4-hour response support

Correct Answer: BE

QUESTION 8

You are working with a local children's hospital on a full storage refresh proposal. The hospital has implemented a three-tier storage strategy as detailed below.

Tier 1 - Business critical 24x7 databases, email applications, and data warehouses. Also includes any other applications that have high availability and heavy write performance. This data is replicated to a disaster recovery site to ensure no data loss occurs in addition to standard backup practices. Currently 50 TB on HP XP12000.

Tier 2 - General user file shares and non-critical databases. Minimal downtime can be tolerated, and high performance is not required. This data is backed up daily. Currently 150 TB on multiple HP EVAs.

Tier 3 - Long-term archives of user data. The data is moved from Tier 2 to Tier 3 as it ages. Downtime can be tolerated, but data must be maintained. Backups are only done when new data is added to the archive. There are currently 250 TB on multiple HP P2000s.

Costs for ongoing maintenance and management are escalating, and the hospital is looking for ways to reduce costs and re-deploy storage management staff even with the annual 10% growth. You are designing an HP 3PAR StoreServ solution to meet their needs and are using the HP Storage Sizer to make your calculations.

Which workload mix meets the hospital's needs for storage for the next year?

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

QUESTION 9

You are proposing an HP 3PAR StoreServ Storage solution to a customer who regularly misses exporting new virtual



volumes to all hosts that need access to the LUN.

Which feature of an HP 3PAR StoreServ Storage system solves this problem?

- A. Autonomic Rebalance
- B. Persistent Ports
- C. Autonomic groups
- D. Common Provisioning groups

Correct Answer: C

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.

Which HP 3PAR Storage technology will allow the customer to automatically migrate data between different disk types to meet one of the stated business goals?

- A. Autonomic Rebalance
- B. Dynamic Optimization
- C. Peer Motion
- D. Adaptive Optimization

Correct Answer: D

QUESTION 11

You have designed a new SAN fabric for a customer. The fabric consists of Cisco MDS 8/24c Fabric Switches for HP BladeSystem c-Class. Which mode allows automatic mapping of physical WWNs to virtual WWNs using NAT?

- A. Access Gateway
- B. FlexFabric
- C. NPV
- D. Virtual Domains

Correct Answer: C

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:

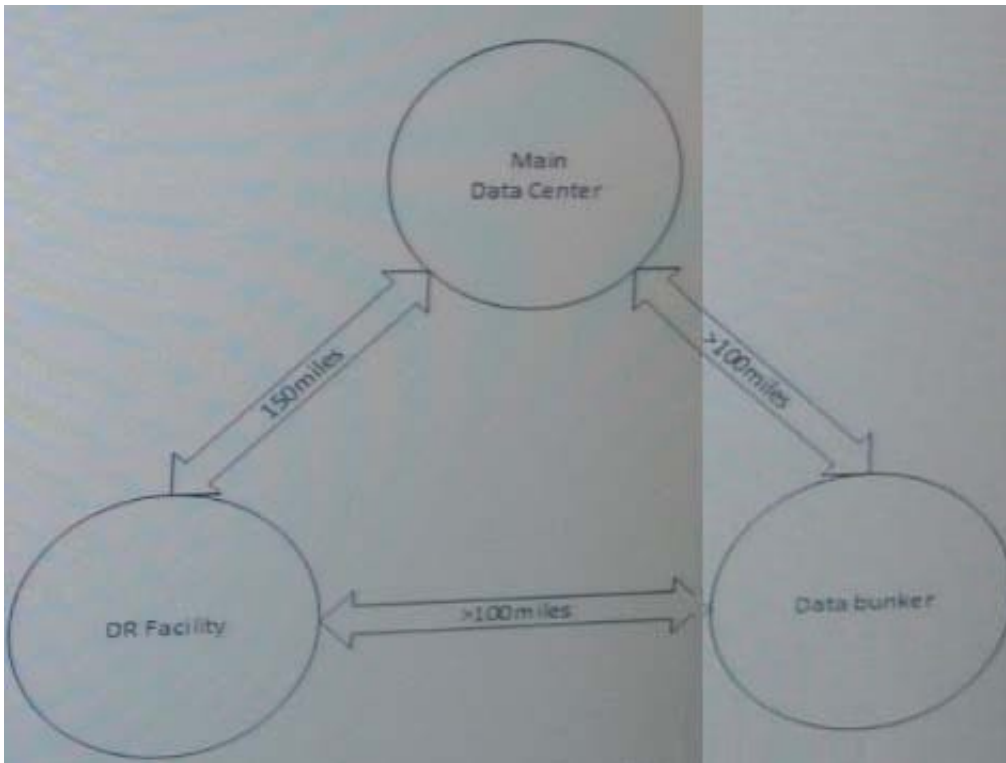
- increased confidence in disaster recovery

- 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.

Based on the discussions with the client, you determine that the current DR strategy is not optimal. You want to propose a new layout that utilizes three data facilities, as shown in the exhibit.



How should you build the storage and backup based on this DR strategy?

- A. Use an HP StoreOnce 4430 Backup solution to replicate the data between the three facilities. Use an additional HP StoreOnce 4430 array in the data bunker for long-term storage.
- B. Use an HP StoreOnce 4430 Backup solution in each facility. Use an MSL library in the data bunker for archiving, and have a small MSL library in the other two sites for recovery.
- C. Use data replication between the Main Data Center and the DR site. Use an HP StoreOnce 4430 Backup solution in the data bunker. Use an MSL library in the data bunker for archiving, and have a small MSL library in the other two sites for recovery
- D. Use data replication between the three sites. Use an MSL library in the data bunker for archiving

Correct Answer: C

QUESTION 13

Your customer wants to replicate backup data from branch offices to a primary data center where an HP StoreOnce 4430 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 migrate all services to the primary data center. No additional hardware can be purchased for the branch offices, and complexity should be minimized.

Which deduplication type is optimal for this customer?

- A. Source-side
- B. Application-side



C. Target-side

D. Server-side

Correct Answer: D

Target-side NOT: "Target-side Deduplication can be used for conventional B2D environments where full bandwidth links are used between the media server and the Deduplicated Data Store." Application-side NOT exist.

Source-side NOT: Limited agents for OS to use Source-side. 32bits not compatible. "Note that the backed up system must support deduplication (64-bit Windows systems or 64-bit Linux systems only, for details, see the support matrices)."

Server-side: "Note that the Media Agent client must support deduplication (64-bit Windows systems or 64-bit Linux systems only, for details, see the support matrices). Server-side deduplication enables you to deduplicate data from clients on which deduplication is not supported locally."

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

QUESTION 15

You are reviewing a colleague's extended fabric design, which proposes an HP 1606 Extension SAN Switch.

Which customer requirement should lead you to choose an HP Multi-protocol Router Blade for the B-Series as an alternative?

A. Requirement to extend the fabric between sites

B. Concerns around fabric stability

C. Requirement to support dark fiber metro connectivity

D. Need for up to 10 Gbs replication bandwidth

Correct Answer: A



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