



HP0-J67^{Q&As}

Architecting Multi-site HP Storage Solutions

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**QUESTION 1**

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

QUESTION 2

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.

You are proposing two HP StoreVirtual 4530 arrays for the secondary storage. Which feature of HP LeftHand OS meets the IT improvement goals? (Select two.)

- A. Network RAID
- B. Peer Motion
- C. Port Persistence
- D. Volume Resynchronization
- E. Thin Provisioning

Correct Answer: BE

QUESTION 3

A customer extends their Oracle Database on a virtual volume residing on an HP 3PAR StoreServ array. After the extension is complete, the customer asks you why the additional allocated space by the database is not reflected in the occupation level on their HP 3PAR StoreServ array. You explain the superior TCO and ROI of HP 3PAR StoreServ arrays to the customer.

Which HP 3PAR StoreServ technology increases the efficiency of HP 3PAR StoreServ arrays and improves TCO and ROI?

- A. HP 3PAR Virtual Array
- B. HP 3PAR Thin Provisioning
- C. HP 3PAR REplication
- D. HP 3PAR Wide Stripping

Correct Answer: B

QUESTION 4

A customer has multiple eight-node SQL clusters that are currently connected to three HP EVA 8400 Storage systems.



The customer has I/O latency problems on the servers and sees high queue depths on the EVA ports. What should you recommend to solve this problem?

- A. HP EVA P6000, which has higher queue depths
- B. HP StoreVirtual multi-node with Fibre Channel support
- C. HP Storevirtual with iSCSI to eliminate queue depths
- D. HP 3PAR StoreServ 10000 with 32 host ports

Correct Answer: D

QUESTION 5

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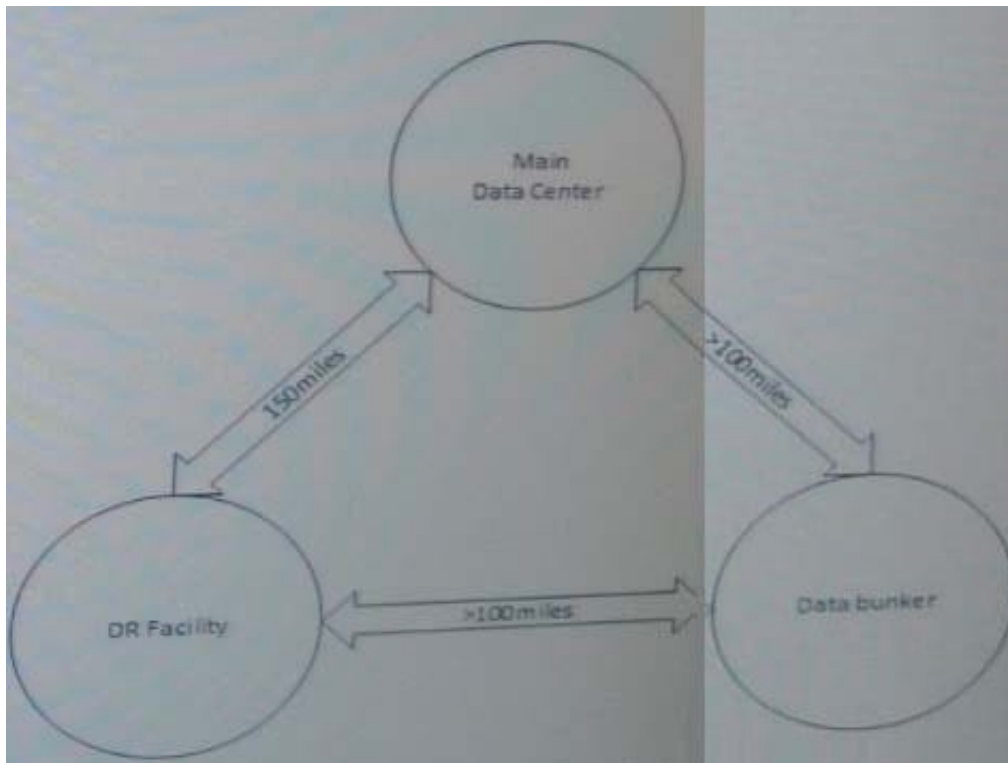
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The company has asked that you create multiple solution proposals and prioritize one when you return for a presentation.

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