

HP0-J67^{Q&As}

Architecting Multi-site HP Storage Solutions

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QUESTION 1

Which HP 3PAR StoreServ features help you meet IT improvement goals? (Select two.)

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

Correct Answer: AB

QUESTION 2

A large publicity-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 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 7TB 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 of site 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 top four IT improvements goal 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 backup during regular business hours

-improved management of external audits.

Refer to the scenario. Which additional information do you require to validate the customer DR strategy? (Select three.)

- A. WAN latency
- B. Data structure
- C. Number of hosts
- D. RTO and RPO
- E. Data change rate
- F. Distance between data centers

Correct Answer: ADE

QUESTION 3

You need to ensure data integrity on physical disks within the proposed HP 3PAR StoreServ Storage array.

Which HP 3PAR StoreServ Storage component calculates the value of the disk T10 Data Integrity Feature (DIF)?

- A. HP Service Processor
- B. HP InServ Controllers CPUs
- C. Controller Cache Algorithm
- D. HP 3PAR Gen4 ASIC

Correct Answer: D

Bandwidth and communication optimization

As previously mentioned, each V800 or V400 Controller Node contains two high-performance, proprietary HP 3PAR Gen4 ASICs optimized for data movement between three I/O buses, a three memory-bank Data Cache, and seven high-speed links to the other Controller Nodes over the full-mesh backplane. These ASICs perform parity calculations (for RAID 5 and RAID MP/Fast RAID 6) on the Data Cache, and calculates the CRC Logical Block Guard used by the T10 Data Integrity Feature (DIF) to validate data stored on drives. An HP 3PAR V800 Storage System with 8 Controller Nodes has: 16 ASICs, totaling 112 GB/s of peak interconnect bandwidth and 24 I/O buses totaling 96 GB/s of peak I/O bandwidth.

In "The HP 3PAR Architecture"

QUESTION 4

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 5

A customer branch office backup and restore strategy integrates replication using HP StoreOnce D2D4109i Backup system in the main data center. After a presentation of a new HP StoreOnce Backup system and its functionalities, the customer wants to use HP Storeonce Catalyst with HP Data Protector installation for the existing replication environment.

What has to be done to integrate the concept? (Select 2)

- A. Upgrade existing HW with RAM and drives for Catalyst compatibility
- B. Propose StoreOnce Catalyst DP licenses for existing models
- C. Upgrade backup system SW to an StoreOnce Catalyst aware ver.
- D. Trade in the branch office systems and propose StoreOnce 4210 Backup Systems
- E. Recommended HP DataProtector StoreOnce replication licenses.

Correct Answer: BC

HP StoreOnce Backup systems, G3 BBxxxA models Best practices for VTL, NAS, StoreOnce Catalyst and Replication implementations

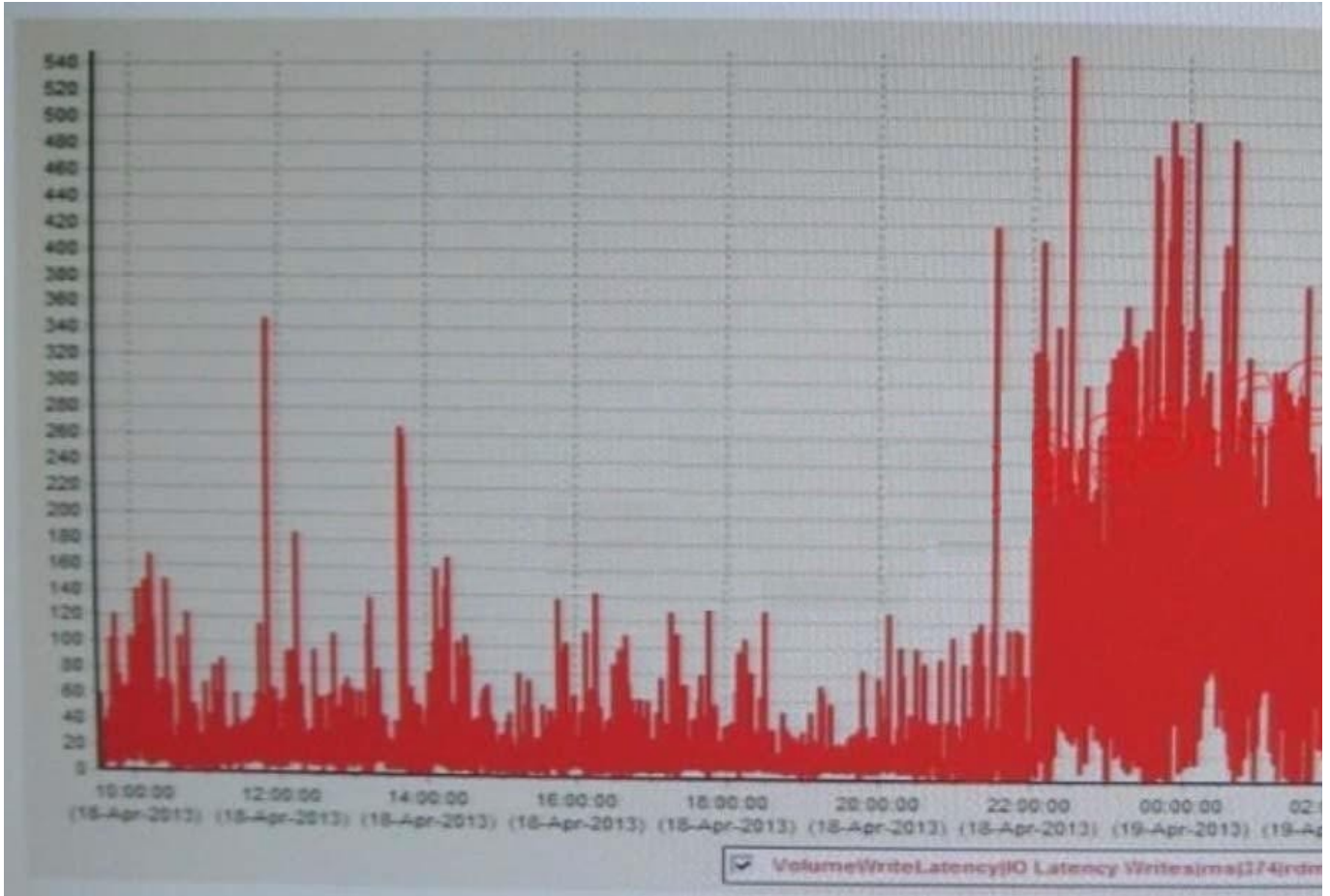
http://h20628.www2.hp.com/km-ext/kmcsdirect/emr_nac03707627-1.pdf p9, paragraf 2: HP StoreOnce Catalyst stores do require a separate license on both source and target; VTL/NAS devices only require licenses if they are replication

targets so we need to choose either B or E. But there is no replication, so choose B p9, topic "key features" last bullet:

HP StoreOnce is only supported on HP Data Protector 7.01, Symantec NetBackup 7.x and Symantec Backup Exec 2012. So we need to upgrade SW - C.

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

Refer to the scenario.

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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.

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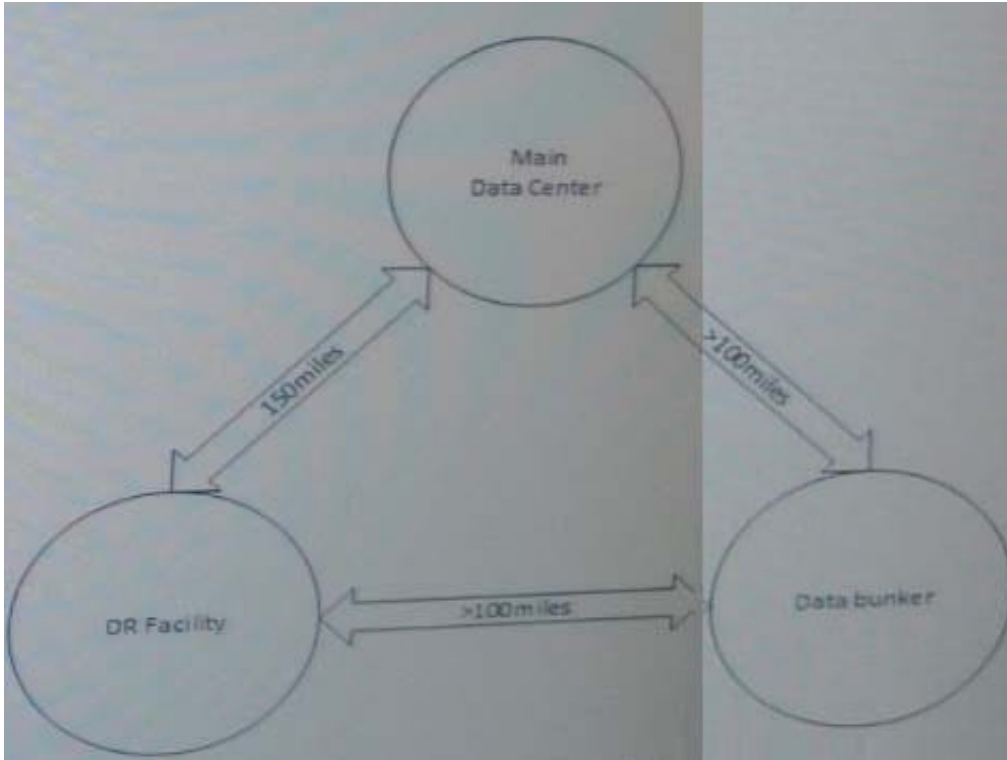
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 - minimal disruption by backups during regular business hours
 - improved management of external audits

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 8

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 9

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- 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 10

Your customer has a number of existing HP P4000 G2 clusters across two sites. They are installing a new upgraded HP Storevirtual 4000 environment.

The customer asks for the best method with the least amount of downtime to migrate the data from the physical servers to the new storage arrays.

Which method do you suggest?

- A. HP REMOTE COPY
- B. VmWARE Vmotion
- C. Cluster Swap
- D. HP MPX200

Correct Answer: D

QUESTION 11

A customer experiences a sudden loss in write performance on the HP 3PAR StoreServ array on the primary site. Reads are not affected, but writes slowed down significantly. What should you advise the customer to check first in order to solve the issue?

- A. replication type (if set to asynchronous periodic, set it to synchronous)
- B. Fibre Channel infrastructure and optical cabling for malfunctioning components

- C. host multi-pathing software (update it to the newest available version)
- D. replication type (if set to synchronous. set it to asynchronous periodic)

Correct Answer: D

QUESTION 12

Your client wants to replace their aging storage and server infrastructures with the latest technology available to run their online transaction processing and Oracle data warehouse applications. The client data warehouse holds a minimum of

2 years of trading and market data for reporting, trending, and regulatory functions.

The current storage system is an HP 3PAR F400 that has been operational for almost 4 years without any downtime. The client needs 150 TB of raw capacity.


Which proposed solution follows the configuration best practices and future proofing?

- A. HP 3PAR StoreServ 7400-4 with SSD and NL drives
- B. HP 3PAR StoreServ 7200 with 15k SAS and NL drives
- C. HP 3PAR StoreServ 7200 with SSD and NL drives
- D. HP 3PAR StoreServ 7400-4 with 15k SAS and NL drives

Correct Answer: A

QUESTION 13

During an HP customer assessment workshop, the Alinean report shown in the exhibit is created. Which cost saving should you highlight in your presentation when positioning the value of HP 3PAR StoreServ Thin Technologies?

Three year TCO	Current (As-Is) Vs. New HP 3PAR	New HP 3PAR	Details	Existing	HP - 3PAR	Alternate Solution	Savings: HP 3PAR Vs. Existing
<input checked="" type="checkbox"/>	Hardware Cost		Details	16.527€	54.749€	110.110€	(38.222€)
<input checked="" type="checkbox"/>	Software Cost		Details	115.387€	23.690€	33.242€	91.696€
<input checked="" type="checkbox"/>	Service and Support Cost		Details	434.403€	22.746€	40.263€	411.656€
<input checked="" type="checkbox"/>	Total Capacity Cost		Details	248.215€	72.613€	101.187€	175.602€
<input checked="" type="checkbox"/>	Incremental Infrastructure Cost		Details	7.323€	0€	7.323€	7.323€
<input checked="" type="checkbox"/>	Storage Administration and Management Cost		Details	211.132€	21.113€	116.123€	190.019€
<input checked="" type="checkbox"/>	Other Services (Professional, Consulting etc.)		Details	0€	0€	0€	0€
<input checked="" type="checkbox"/>	Power and Cooling Costs		Details	63.118€	20.300€	65.464€	42.817€
<input checked="" type="checkbox"/>	Data Centre Floor Space Cost		Details	10.328€	1.661€	3.477€	8.667€
<input checked="" type="checkbox"/>	Implementation Cost			0€	8.534€	11.933€	(8.534€)
<input checked="" type="checkbox"/>	Cost Of Unplanned Downtime (High Availability)		Details	81.282€	837€	40.641€	80.445€
<input checked="" type="checkbox"/>	Cost Of Planned Downtime (Maintenance,Upgrades)		Details	29.767€	0€	29.767€	29.767€
<input checked="" type="checkbox"/>	Time To Solution (PO, Create New Environments)		Details	26.801€	3.350€	20.101€	23.451€
<input checked="" type="checkbox"/>	Application Integration (e.g. VMWare, Oracle...)		Details	28.605€	22.884€	25.744€	5.721€
Total				1.272.886€	252.479€	605.373€	1.020.406€

- A. Planned downtime
- B. Unplanned downtime

- C. Application integration
- D. Power and cooling

Correct Answer: A

QUESTION 14

A customer has an environment spanning two data centers in a campus environment. The primary storage is an HP 3PAR StoreServ 10400 Storage System. Data is replicated between sites with an RPO of zero. The customer is questioning whether they have adequate protection. You suggest creating a DR site and actively replicate the data to it.

What are the implications of adding the third data center to the data network?

- A. 10GbE links are needed to interconnect the HP StoreServ 3PAR arrays.
- B. The data network must support Converged Enhanced Ethernet.
- C. The data network must support OpenStack.
- D. A dedicated subnet must be added to interconnect the 3PAR arrays.

Correct Answer: D

QUESTION 15

In addition to being able to wide-stripe data over many physical disks, what is another unique feature of an HP 3PAR StoreServ compared to competitor block- based arrays?

- A. Custom ASIC-enabled Thin Provisioning
- B. Asynchronous remote replication
- C. Controller functions based on a software implementation of RAID
- D. Block storage functions facilitated by software emulation

Correct Answer: A

Hardware-assisted HP 3PAR Thin Technologies enable customers to reduce capacity requirements by 50 percent." in HP 3PAR Battlecards

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