

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

Architecting Multi-site HP Storage Solutions

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## QUESTION 1

Match the architecture type with the correct storage solution.

Select and Place:

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Monolithic

HP XP Storage

Scale Up

HP StoreSure Storage

Grid

HP StoreAll Storage

Scale Out

HP 3PAR StoreServ Storage

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Correct Answer:

**Match the architecture type with the correct storage solution.**

	Monolithic
	Scale Up
	Scale Out
	Grid

Scale-up typically refers to architectures that use a single, fixed resource controller for all processing. To add capacity, you attach disk-shelves up to the maximum for which the controller is rated.

Scale-out architecture is a component of converged storage. Scale-out storage is the combination of modular computers and standardized storage components to create federated storage pools. Monolithic storage architectures have been

characterized as large storage arrays that require a large upfront investment and resources.

Storage GridA storage architecture that may have a grid-like architecture and provides interfaces to this architecture in a standardized fashion to allow grid management facilities to configure, provision, and otherwise define a horizontally

scalable storage service.

## QUESTION 2

You are designing an HP SPAR StoreServ solution to host a customer Microsoft Hyper-V 2012 environment load on the transport network?

- A. T10 Unmap (T10U)
- B. Offload Data Transfer (ODX)
- C. vStorage APIs for Array Integration (VAAI)
- D. T10 Data Integrity Field (DIF)

Correct Answer: B

**QUESTION 3**

You are reviewing a colleague's design for a new storage environment. The solution consists of two HP 3PAR StoreServ arrays. The colleague also proposes an HP Multi-protocol Router Blade for the B-Series to extend the fabric.

Which customer requirements should lead you to choose an HP MPX200 Multi-protocol Router as an alternative? (Select two.)

- A. Need for up to 10Gbs replication bandwidth
- B. Need for FCoE support
- C. Need for online migrations
- D. Need for fabric stability
- E. Need to prioritize array replication over WANs, over less critical traffic

Correct Answer: AC

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**QUESTION 4**

Refer to the scenario. Items to answer: RPO

RTO

Possible answers:

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.

During a follow-up meeting with your customer, you learn that there is an additional business requirement to limit the total downtime of data center systems to 72 hours, and no more than 24 hours of data can be lost. The IT department indicates that they have an existing 2-hour response time SLA with their business users for critical systems.

What should you use for their RTO and RPO when designing a new backup solution?

- A. RPO - 24
- B. RTO - 72

Correct Answer: AB

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#### QUESTION 5

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

- A. The lowest the block change rate the highest the deduplication ratio
- B. No changed blocks between backups result in a dedup ration of 0%
- C. Dedup ration is only affected by the back up software
- D. The rate of changed blocks does not affect deduplication efficiency.

Correct Answer: A

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#### QUESTION 6

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.

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#### QUESTION 7

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 8

Your client has just purchased an HP 3PAR StoreServ array and wants to architect and implement a DR strategy. During a disaster, they need to be back in operation within two hours after the disaster has been declared. Declaration of a disaster is estimated to one hour. The business can afford to lose five minutes worth of data.

Which RTO and RPO, defined in minutes, does the customer have?

- A. RTO = 120, RPO = 5
- B. RTO = 180, RPO = 5
- C. RTO = 180, RPO = 65
- D. RTO = 5, RPO = 120

Correct Answer: A

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#### QUESTION 9

A client wants to deploy a new HP 3PAR 7400 storage environment. They want to utilize additional features of the array

to optimize their backup and data restore capabilities. Which HP 3PAR software suite should you recommend?

- A. Replication
- B. Thin
- C. System Tuner
- D. Security

Correct Answer: B

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#### QUESTION 10

Your customer wants to upgrade their existing HP 3PAR S-Class array. A competitor has suggested a non-HP storage array. Your conversation with the customer focuses on the notable architectural enhancements within the new generation of HP 3PAR StoreServ 7400 platforms.

Which enhancements should you focus on? (Select two.)

- A. The tightly coupled cache-coherent clustering is built into the Gen4 ASIC.
- B. The 64-bit OS enables scalable headroom for performance and capacity.
- C. Logical Disk regions have increased from 256 MB and are now 1 GB in size.
- D. Write cache mirroring is now implemented N+N across the 7x00 controllers.
- E. New HP StoreServ 7x00 now supports 16Gb Fibre Channel speeds.

Correct Answer: BD

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#### QUESTION 11

A customer has an environment that spans two data centers in a campus environment. The primary storage is HP 3PAR 10400, and data is replicated between sites with an RPO of zero.

Recent bad weather has caused flooding near the customer site and the customer is questioning whether they have adequate protection. You suggest creating a data center at a remote location and actively replicating the data to it. The

customer is concerned that the remote link to the third site will have insufficient bandwidth and will create a local replication bottleneck.

Which statement addresses the customer concerns?

- A. Synchronous Long Distance will schedule data replication outside high latency periods autonomous array
- B. Data is transmitted in a continuous stream with write order being handled by the target array.
- C. Remote Copy uses multiple connections over the same link from multiple volumes.
- D. Over provisioning of the remote link will ensure enough bandwidth is always available for replication.

Correct Answer: D

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## QUESTION 12

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.

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 13

Which tool does the HP StoreVirtual 4000 solution provide to help customers monitor array health?

- A. Command View
- B. Centralized Management Console
- C. FCTool
- D. SAN Toolbox

Correct Answer: B

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    - 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 business and IT objective can be addressed by proposing a server automation initiative?

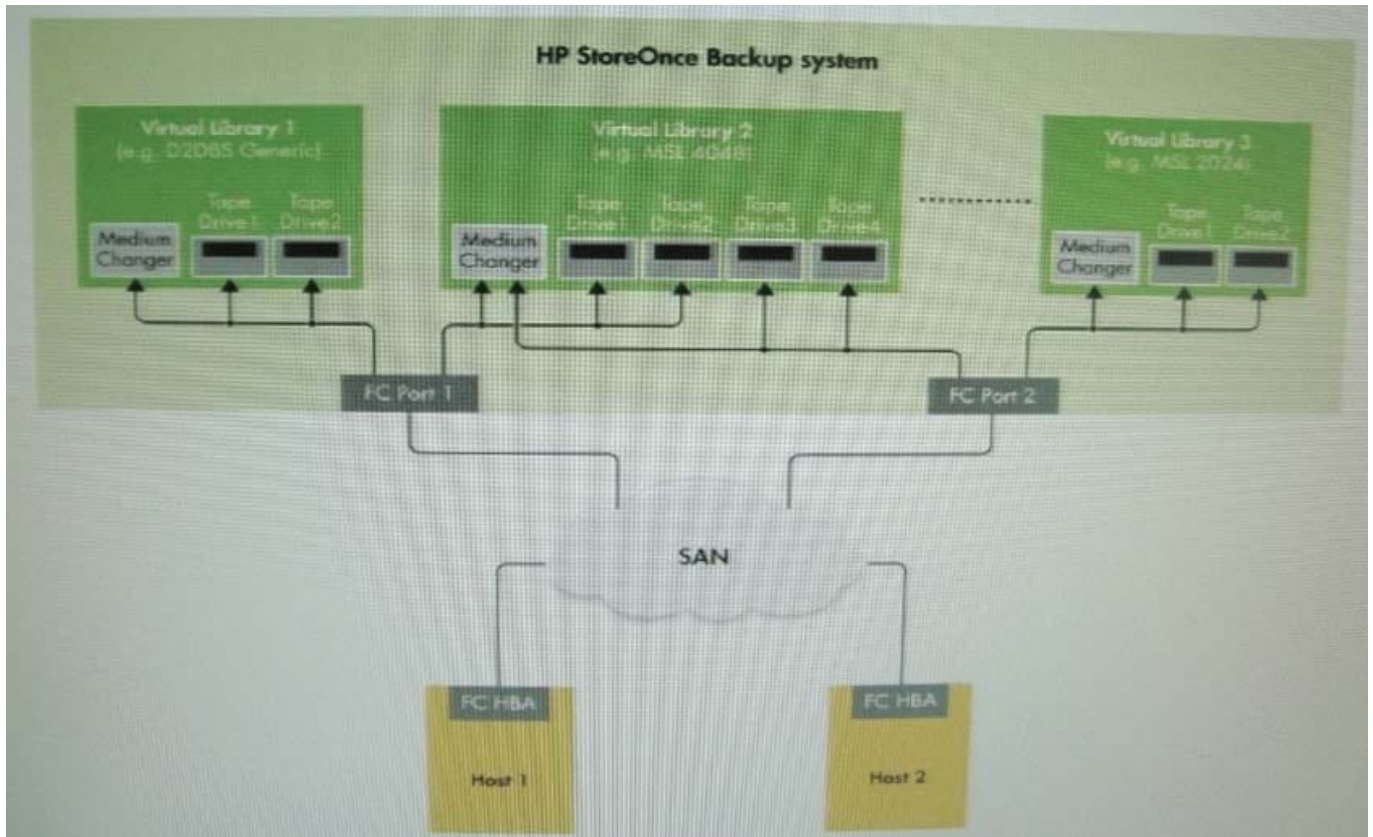
- A. Increased efficiency, reliability, and ease of system administration
- B. Reduced server downtime and faster backup
- C. Robust replication capability between data centers
- D. Reduced the need for Proof of Concepts

Correct Answer: A

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## QUESTION 15

Refer to the exhibit:



How does the cabling scheme ensure high availability for Virtual Library 2?

- A. The Virtual Tape Libraries are spread across both Fibre Channel ports and offer load balancing across the SAN.
- B. The medium changer and drives are connected redundantly to the Fibre Channel ports of the system and the SAN.
- C. The drives are presented through both Fibre Channel ports of the HP StoreOnce Backup System.
- D. The medium changer is connected redundantly, and the drives, by default, are connected 50% to each port.

Correct Answer: D

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