



**HP**

# **HP0-J64**

*Designing HP Enterprise Storage Solutions*

**QUESTION:** 113

Which storage trend is directly connected to the concept of return on information?

- A. Big Data
- B. Cloud-based storage
- C. Flash-based storage
- D. Thin Provisioning

**Answer:** D

**Explanation:**

VP/CIO, Regional US Healthcare Provider 3PAR's thin provisioning alone has saved me around 50% of planned capacity, allowing me to reclaim space and defer expenditure.

**QUESTION:** 114

How can server performance degradation be avoided during backup in a large virtualized environment with HP Data Protector?

- A. Utilize VMware ESX Server Snapshots
- B. Use HP StoreOnce D2DBS generic library emulation
- C. Configure target side deduplication
- D. Implement zero downtime Backup

**Answer:** D

**QUESTION:** 115

What does the 4-port Converged SAN Controller provide in the HP MSA 2040?

- A. IP ports for Asynchronous and Synchronous replication
- B. SFP modules support for FC and iSCSI
- C. Support for FCoE direct connect
- D. 6GB SAS and 16GB FC Combo support

**Answer:** B

**Explanation:**

The HP MSA 2040 can also replicate data between arrays (P2000 G3 and/or MSA 2040 SAN Model only using FC or iSCSI protocol) with the optional Remote Snap feature.

**QUESTION:** 116

Which feature in HP StoreVirtual Lefthand OS is ideal in VMware based VDI environment it stores all the virtual machines on a single volume once, without replicating data?

- A. Thin Provisioning snapshots
- B. Adaptive Optimization
- C. SmartClone volume
- D. Network RAID

**Answer:** D

**Explanation:**

Network RAID is a per volume setting which can be adjusted to meet data protection and replication requirements on the fly. There are a variety of Network RAID levels to choose from, but for most production environments it is recommended to use Network RAID 10, which stores two copies of the data on the cluster. With this setting, the volumes remain online if you lose any single node in the cluster. From a capacity standpoint, you would need to take your capacity estimate based on your assessment of applications and workloads above and multiply it by the numbers of copies you want. For Network RAID 10, this is a factor of 2, as you store two copies of the data on this volume. More information on the other Network RAID levels and their respective use cases can be found in the HP StoreVirtual User Guide.

**QUESTION:** 117

The chief information officer (CIO) of a company with 2500 employees is considering a VDI implementation to lower costs. The IT department is not interested in high storage capacity, but instead wants as many IOPS as possible. Which system meets the customer needs?

- A. HP 3PAR StoreServ 7400
- B. HP 3PAR StoreServ 7450
- C. HP 3PAR StoreServ 10400
- D. HP 3PAR StoreServ 10800

**Answer:** A

**Explanation:**

HP 3PAR StoreServ 7400 In the world of data center storage, the HP 3PAR StoreServ 7400 modular array is royalty. Setting the HP 3PAR StoreServ apart from the competition is an underlying architecture designed specifically to eliminate the performance bottlenecks and failure modes of traditional block storage systems. Tight integration with VMware and support for the Storage Management Initiative Specification make the HP 3PAR StoreServ a perfect target for virtualization workloads. New all- flash models from HP 3PAR deliver high-end performance in basically the same package and integrate into the same management infrastructure. You can mix and match disk-based and flash- based units as requirements dictate, and draw on all the same HP 3Par features that substantially ease the burden of managing storage.

**QUESTION:** 118

What should be added to an HP 3PAR StoreServ design recommendation to support customer business goals of clustering the RIO and reducing the TCO?

- A. HP Virtual Connect Flex fabric Modular
- B. Hp 3PAR Thin Suites
- C. HP 8/24 SAN switches
- D. HP ProLiant Server technologies

**Answer:** B

**Explanation:**

Cut storage TCO by 50 percent with:

- Thin Provisioning
- Thin Conversion
- Thin Persistence
- Adaptive Optimization
- Fast RAID Technologies

**QUESTION:** 119

Which storage product supports a Microsoft SQL database and can be scaled linearly?

- A. HP StoreAll 8200
- B. HP StoreVirtual 4500
- C. HP MSA 2040
- D. HP StoreEasy 3800

**Answer:** A

**Explanation:**

- HPCA server + SQL database + ACAmail installed on HP ProLiant DL380p, G8 server.  
2. StoreAll 6.5 build installed on the HP StoreAll 8200 Gateway Storage model.  
3. HPCA IDOL and License installed on another HP ProLiant DL380p, G8 server.

**QUESTION:** 120

The IT manager of a company wants their NAS storage system that uses deduplication to be more efficient. Which NAS system meets this requirement?

- A. HP StoreOnce with catalyst
- B. HP 3PAR StoreServ with Thin Provisioning
- C. HP MSA 2040 with snapshot technology
- D. HP StoreEasy with Windows Storage Server

**Answer:** D

**Explanation:**

HP X3000 G2 Storage boosts the value of your array or SAN by adding Windows Storage Server- powered, IP-based gateway services to it.

**QUESTION:** 121

Which tool can be used to migrate data between existing storage clusters in an HP StoreVirtual environment?

- A. LeftHand OS Adaptive Optimization
- B. Network RAID Synchronous Replication
- C. LeftHand OS Motion
- D. Multi-Site cluster

**Answer:** C

**Explanation:**

StoreVirtual 4000 Storage, based on the LeftHand operating system, is a scale-out storage platform that is designed to meet the fluctuating needs of virtualized environments. Intuitive, common management and storage federation meet the need for simplicity and flexibility in today's virtual datacenters

**QUESTION:** 122

A Customer plans to centralize and virtualize their user desktops using VMware Horizon

for 300 users. Their primary focus for the project is efficient backups. The customer design includes HP ProLiant BL460 Gen8 servers and an HP StoreVirtual solution. The customer needs an environment that uses a single management console for all backups and replication activities and the ability to implement federated deduplication. The design incorporates an HP StoreOnce B6200 Backup solution. Which HP Enterprise Backup (EBS) supports the customer's needs?

- A. HP StoreOnce Catalyst
- B. HP StoreOnce VTL emulation
- C. Enterprise Tape Library
- D. NAS share

**Answer:** A

**Explanation:**

Law enforcement office saves time and money with HP 3PAR StoreServ Storage and HP StoreOnce centralized backup

**QUESTION:** 123

Which functionality has been added to HP Support Center?

- A. Automatic of Care Packs
- B. Preparation management of training packs
- C. HP Insight Online
- D. 24/7 proactive firmware updates

**Answer:** A

**Explanation:**

Choose peace of mind with HP Care Pack Services. Add to the quality, protection, and duration or speed of service currently available on your product. With HP Care Pack Services, you can have access to a team of HP experts whenever you need them, plus a range of support services tailored to meet your needs. Never be surprised by unexpected costs for protection, repair and support again. With HP, you are placing your trust in a brand that delivers globally and protects your technology investment, so you can focus on the things you care about.

**QUESTION:** 124

Which condition results in a Persistent Port failover on an HP 3PAR StoreServ array at In

Farm OS level 3.1.3? (Select two)

- A. Automatic master node assignment change
- B. RSCN event after zone set update
- C. Loss of port sync
- D. User directed Host Persona Change
- E. Node Reboot or spontaneous failure

**Answer:** B, D

**Explanation:**

Fabric zoning controls which FC end-devices have access to each other on the fabric. Zoning also isolates the host and HP 3PAR StoreServ Storage ports from Registered State Change Notifications (RSCNs) that are irrelevant to these ports. When changing an existing host persona from 6 to 11, a host reboot is required for the change to take effect. This is an offline process. See “Configuring ESX/ESXi Multipathing for Round Robin via SATP PSP” (page 42) for the detailed procedure, as the host persona change should coincide with changing the SATP rules on the host as well.

**QUESTION:** 125

A trading company has a complex infrastructure with 12 data centers. The chief information officer (CIO) is looking for ways to maximize a reduction of OPEX and CAPEX. Which key initiative would help the CIO to achieve goal?

- A. Tiered storage
- B. Scale-out storage
- C. Software defined networking
- D. Consolidation

**Answer:** D

**QUESTION:** 126

Which feature of HP 3PAR StoreServ systems will allow a company’s IT staff to re-balance entire systems or multiple volumes automatically and non disruptively based on configuration policies?

- A. HP 3PAR StoreServ Port Persistence
- B. HP 3PAR StoreServ System Reporter
- C. HP 3PAR StoreServ Dynamic Optimization

#### D. HP 3PAR StoreServ Adaptive Optimization

**Answer:** C

**Explanation:**

This optional software bundle combines HP 3PAR Dynamic Optimization, Adaptive Optimization, and Peer Motion Software so you can move data and workloads between arrays without impacting applications, users, or services. Licensed based on system capacity, the three software titles bundled in this suite are also sold separately for all HP 3PAR StoreServ 7000 models

**QUESTION:** 127

A company hosts several Microsoft SQL server instances and virtual machines for their internal sales departments on HP EVA6400 storage systems running View 10.0 and XCS 9.53400. The acts globally and runs a 24x7 business with limited IT staff. The customer requires a solution design focused on a short ROI and an optimal total cost of ownership (TCO) for 5 years. The new storage solution should support the customer's flexible business demands. What has to be considered when planning the data online migration from the EVA systems within the first 5 months after implementing an HP 3PAR StoreServ system?

- A. Exclusive data access for the HP 3PAR system is required during the migration period
- B. Command View has to be upgraded
- C. HP Service has to be involved
- D. Peer Motion has to be purchased

**Answer:** D

**Explanation:**

HP 3PAR Peer Motion Software enables Storage Federation and is the first non-disruptive, do-it-yourself data migration and load balancing tool for enterprise storage. With Peer Motion, HP 3PAR StoreServ customers can load balance I/O workloads across systems at will, perform technology refresh seamlessly, cost-optimize asset lifecycle management, and lower technology refresh capital expenditure

**QUESTION:** 128

On which level is encryption implemented in the StoreServ array?

- A. The Virtual Volume level
- B. The Commware Provisioning Group level
- C. The record pair level



D. The physical disk level

**Answer:** D

**Explanation:**

Once data is received at the disk level the disk will act upon this data as a normal data request. The drive electronics are responsible for checking and maintaining data integrity prior to data entering the data encryption engine. We will not discuss in this paper these checks other than to make reference to the checks being performed.

**QUESTION:** 129

Which HP 3PAR StoreServ software gives the customer the ability to specify a minimum number of IOPs for a volume set?

- A. HP 3PAR StoreServ Dynamix Optimization
- B. HP 3PAR StoreServ Performance Advisor
- C. HP 3PAR StoreServ Adaptive Optimization
- D. HP 3PAR StoreServ Enhanced Priority Optimization

**Answer:** C

**Explanation:**

HP 3PAR Adaptive Optimization and QoS can cooperate, but HP 3PAR Adaptive Optimization data migration may impact latency goal settings. For example, when a workload is partially migrated from Fibre Channel drives into NL ones after the collection and analysis of the I/O access pattern by HP 3PAR Adaptive Optimization, depending on the host access I/O pattern, this may have a negative impact on latency and trigger workloads to be throttled towards their in goal. This is an expected behavior if the QoS rule was modeled after the Fibre Channel performance.

**QUESTION:** 130

A customer is interested in considering eight physical servers using virtualization technologies. The environment analysis shows that no SSD drives and redundancy across data centers is needed for the 2 TB of data. Which storage product archives a quicker ROI?

- A. HP StoreVirtual 4130
- B. HP MSA 1040
- C. HP StoreVirtual 4330
- D. HP MSA2040

**Answer:** B

**Explanation:**

HP MSA 1040 Storage—with up to 50% more performance<sup>2</sup> at a 25% lower entry price point<sup>3</sup>, the MSA 1040 delivers 4th generation MSA technology to a whole new set of businesses. Fuel your consolidation, messaging and virtualization initiatives with full-featured easy to use storage that stretches your budget—with dual controller iSCSI/FC configurations, capacity expansion and an easy upgrade to MSA 2040

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