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Exam Name: Architecting Multi-Site HPE Storage Solutions

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Exam A

QUESTION 1

What does Flow Control functionality provide?

- A. It manages congestion by pausing Ethernet traffic.
- B. It allows use of frame sizes up to 9000 bytes.
- C. It resolves switch backplane or port oversubscription.
- D. It removes the requirement to use Spanning Tree Protocol (STP).

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

You are planning an HPE StoreVirtual architecture based on a customer's physical site configuration. The customer has three physical sites and wants to span the cluster between two of them. All sites should be peers. What should be done to meet the requirements?

- A. Create a logical third site to provide a Failover Manager.
- B. Configure a Failover Manager in the third physical site.
- C. Configure the cluster to span both sites, and configure one site as the primary site.
- D. Configure a Failover Manager in each physical site.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which requirements must be considered when designing and sizing an HPE 3PAR StoreServ environment for periodic asynchronous replication? (Select two.)

- A. Use a CPG with nearline drives for Remote Copy snapshots.

- B. Size only the source array to account for the IOPS resulting from snapshots created by Remote Copy.
- C. Size only the target array to account for the IOPS resulting from snapshots created by Remote Copy.
- D. Use a CPG with SAS drives for Remote Copy snapshots.
- E. Size both arrays to account for the IOPS resulting from snapshots created by Remote Copy.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Your customer is concerned about downtime during storage system upgrades. Which method or technology addresses this concern when using an HPE 3PAR StoreServ solution?

- A. Persistent Cache
- B. Persistent Ports
- C. Persistent RAID
- D. Persistent Peers



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

You are talking to a prospective customer at a medium-to-large enterprise firm about an upcoming storage refresh project they have for their legacy architecture storage platforms. The customer mentions that as they grew the size and types of workloads on their present storage arrays, they became slower in terms of IOPS and throughput. In a few cases, they had to purchase additional arrays to off-load some of the workload. They noticed the same impact to performance when they enabled array-based replication.

Which HPE 3PAR StoreServ architecture feature would solve these issues?

- A. The HPE 3PAR StoreServ storage array is an ideal high availability platform that runs its OS in a single instance.
- B. The shared links between the controller node and each of the other nodes operates at 4 GB/s full duplex to adequately support the clustering of controller nodes and movement of data between nodes.

- C. The HPE 3PAR ASIC offloads IO workload performed by microprocessors in legacy storage array platforms.
- D. The HPE StoreServ storage array uses a high-speed, full-mesh active interconnect to join multiple controller nodes together to form a cache-coherent cluster across the entire array.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which tool should you use to quickly determine HPE 3PAR StoreServ health and performance?

- A. 3PAR CLI
- B. SSMC
- C. CMC
- D. Command View 3PAR

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A customer with multiple Oracle databases in their environment reports that users are experiencing slow application response time. You need to create an optimized solution for this customer. You monitored database performance using Oracle AWR, server, and storage performance monitoring. This revealed that there is a high I/O wait and the average I/O latency is ~30 ms, which is causing slow response times. Which solution should you propose to address the performance problem?

- A. HPE 3PAR storage array with high performance spinning disks with HPE 16 Gb/s StoreFabric.
- B. HPE 3PARall-flash storage array with HPE 16 Gb/s StoreFabric.
- C. HPE 3PARStorage Array with a sufficient number of spinning disks with HPE 16 Gb/s StoreFabric.
- D. HPE 3PARhybrid storage Array with spinning disks, Adaptive Flash Cache, and AO with HPE 16 Gb/s StoreFabric.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

You are designing a solution containing HPE 3PAR storage for your customer. The customer's business is experiencing significant growth, which requires them to invest in a highly-available storage solution. The customer has already invested in two separate data centers but cannot initially afford to purchase two systems. The solution must be able to provide complete local hardware redundancy. In the near future, the solution will be expanded to be geographically independent, and storage systems will be located in both data centers.

Which HPE 3PAR StoreServ storage system feature could be an essential advantage to this customer's business case?

- A. All HPE 3PAR storage system models with an identical number of controller nodes can replicate data with each other and provide transparent failover of access to data between data centers.
- B. Only current HPE 3PAR storage system models can replicate data with each other and provide transparent failover of access to data when the number of controller nodes is identical when RMC-V is used.
- C. Only HPE 3PAR storage systems with Peer Persistence licenses can replicate data with each other and provide transparent failover of access to data, independent of the number of controller node per storage systems.
- D. All current HPE 3PAR storage system models can replicate data with each other and provide transparent failover of access to data between data centers.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

During a presentation of an HPE 3PAR StoreServ asynchronous replication design, a company administrator asks about a possible benefit of the Inter Volume Group Fast Resync functionality in the proposed design.

What are the expected benefits you should discuss? (Select two.)

- A. faster resynchronization of volume groups after volume moves
- B. efficient bandwidth utilization of their links between the sites
- C. greater flexibility when volumes need to be moved between volume groups
- D. short Quiet period waits after moving a volume(s) between volume groups
- E. low impact on Remote Copy performance after volume moves between groups

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Which functionality is provided by an HPE StoreVirtual Multi-site SAN when loss of a site causes loss of quorum in the management group?

- A. The quorum can be recovered manually.
- B. The FOM at the DR site will take over automatically.
- C. The quorum will failover automatically.
- D. The CMC can be used to recover quorum.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 11

Which resource can be used to verify storage system support when using HPE FlexFabric 5900CP switches in a solution design?

- A. HPE SAN Design Guide
- B. HPE QuickSpecs
- C. HPE Backup, Recovery, and Archive (BURA) Solutions design guide
- D. HPE Single Point of Connectivity Knowledge

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

When comparing competitor solutions with your HPE 3PAR StoreServ solution design, which features should you compare?

- A. technology, strengths, threats
- B. fixed cache, services, cost
- C. cost, complexity, openness
- D. mesh architecture, ASIC, manageability

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

You are presenting an HPE 3PAR StoreServ 8450 all-flash solution to a customer's C-level management. Which HPE 3PAR technologies should you focus on to convince the CIO that your proposed solution is more cost-efficient than competitive products? (Select two.)

- A. express writes
- B. thin deduplication
- C. virtual copy
- D. virtual domains
- E. adaptive sparing



Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which HPE 3PAR StoreServ feature allows stretch clusters that support host capability ALUA to survive the failure of a primary storage array?

- A. Peer Persistence
- B. Peer Mobility
- C. Peer Motion
- D. Peer Management

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A customer has a multi-site environment and plans to consolidate file-and-block-level data. A Proof-of-Concept is arranged to familiarize the customer with HPE 3PAR StoreServ File Persona functionality.

Which statement is true when failing over file-level data between the arrays?

- A. A second cluster IP must be configured as a DNS alias for the file shares running on the HPE 3PAR StoreServ
- B. An automated failback is initiated once the primary storage system comes back online.
- C. The clients will need to reconnect to NAS shares once failover is complete.
- D. The Peer Persistence Arbitrator needs to register the file shares before a failover is initiated.

Correct Answer: C

Section: (none)

Explanation



Explanation/Reference:

QUESTION 16

What must be considered when using Jumbo Frames in an iSCSI SAN environment?

- A. Only the network switches in the iSCSI network path will need to have Jumbo Frames enabled.
- B. All devices in the iSCSI network path must have Jumbo Frames enabled.
- C. Jumbo Frames are not recommended in an iSCSI environment with multiple network switches.
- D. Jumbo Frames are only supported on 1 Gb Ethernet networks.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

You size a Remote Copy solution for an HPE StoreServ customer. Which best practice should be implemented concerning Virtual Volumes (VVs)?

- A. All VVs should be spread evenly across all available Remote Copy groups.
- B. All VVs should be put into their own Remote Copy group.
- C. All VVs belonging to the same application should be added to different Remote Copy groups.
- D. All VVs belonging to the same application should be added to the same Remote Copy group.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

A customer must store backup data at a separate site from the company's main data center due to governmental regulations. The customer also needs to have rapid restores and short-term retention.

Which solution allows the customer to do local backups and restores, and archive data off site for the long term?

- A. HPE StoreOnce Recovery manager
- B. HPE StoreVirtual VSA solution
- C. HPE StoreOnce backup solution
- D. HPE StoreEasy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

A customer acquired an HPE 3PAR all-flash array to accelerate their databases. They are currently using synchronous replication, but it is causing slow I/O due to limited network bandwidth and latency, both of which cause application slowdown.

Which alternative solution should you propose to address the issue?

- A. Peer Persistence
- B. Periodic Asynchronous Remote Copy
- C. Synchronous Long Distance Remote Copy
- D. Asynchronous Streaming Remote Copy

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Your customer is using the HPE StoreOnce Recovery Manager Central (RMC) software in their environment and wants to implement the Express Protect feature.

What is required to enable this?

- A. an HP StoreOnce Enterprise Manager license
- B. an HPE StoreOnce Catalyst license.
- C. Express Protect, which is included in the HPE StoreOnce RMC
- D. an HPE StoreOnce Replication license



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

What happens during the fabric login (FLOGI) during the Fibre Channel registration process? (Select two.)

- A. Service parameters are exchanged.
- B. Connections between N-Ports are established.
- C. E_Port FC_IDs are assigned.
- D. Buffer-to-buffer credits are initiated.
- E. F_Port error counters are cleared.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Your customer has been using HPE Data Protector targeting an HPE StoreOnce with VTL replication, but they have concerns that Data Protector does not automatically know about the replicated tapes. You need to design a PoC for the customer to address this limitation. What should you do to supply this functionality?

- A. Use HPE StoreOnce Catalyst Copy.
- B. Update the HPE StoreOnce Firmware to the latest level.
- C. Upgrade HPE Data Protector to Version 9 or higher.
- D. Use HPE Data Protector Automated Replication Synchronization.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 23

A customer has a multi-site, 10-node HPE StoreVirtual solution. What should be configured to ensure that application servers connect to storage systems located in the same site to get their data?

- A. Peer Persistence
- B. I/O path preferencing
- C. synchronous replication
- D. DSM MPIO

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference: