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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58

A company bought an HPE StoreOnce solution as part of its data protection solution. The company has various Oracle installations that need to be backed up to StoreOnce. How should the company's administrator best implement the data protection strategy within the HPE StoreOnce user interface (UI)?

- A. From the System Dashboard, click Databases, click Create Library, then specify the Oracle RMAN option and the respective database servers.
- B. Under Data Services, create a Catalyst Store and select the Oracle RMAN option.
- C. Under Data Services, create a Catalyst Store and install the Oracle RMAN plug-in on the Oracle database server.
- D. From the System Dashboard, click Catalyst Store then specify the Oracle RMAN option and the respective database server.

Answer: C

Explanation:

To protect Oracle databases using HPE StoreOnce, the preferred architectural method is using HPE StoreOnce Catalyst for Oracle RMAN. This integration allows Oracle Database Administrators (DBAs) to manage backups directly from their native RMAN (Recovery Manager) tools while leveraging the deduplication and performance benefits of the StoreOnce appliance.

According to the HPE StoreOnce Catalyst for Oracle RMAN User Guide, the implementation involves two distinct stages: configuration on the StoreOnce appliance and configuration on the database server. First, the storage administrator must log into the StoreOnce UI and, under the Data Services section, navigate to Catalyst. Here, they must create a Catalyst Store. This store acts as the target repository for the backup data. During creation, the administrator sets permissions (client access) to allow the Oracle server to communicate with this specific store.

The second, and crucial, part of the implementation (as noted in Option D) is the installation of the HPE StoreOnce Catalyst Plug-in for Oracle RMAN on the actual Oracle database server. This plug-in provides the "SBT" (System Backup to Tape) interface that RMAN requires to talk to a non-disk/non-tape target. Without this plug-in installed on the host, RMAN has no way of translating its commands into the Catalyst protocol. Once the plug-in is installed and configured with the StoreOnce details, the DBA can allocate channels to the "SBT_TAPE" device and run backup jobs directly to the Catalyst Store created in the UI.

NEW QUESTION # 59

An administrator has implemented automatic switchover (ASO) with Peer Persistence on a pair of HPE Alletra 6000 storage arrays. Which statement is correct regarding the ASO feature?

- A. When a downstream synchronously-replicated volume is unavailable, the upstream volume goes out of sync and host I/O is rejected.
- **B. After a recovery and resynchronization from an ASO situation, a manual handover is required to restore the system back to the default.**
- C. If the witness fails or is unreachable, ASO is still available.
- D. If any single controller in the HPE Alletra 6000 storage array fails, ASO occurs as normal.

Answer: B

Explanation:

HPE Peer Persistence for the Alletra 6000 (and Nimble) provides synchronous replication and automatic transparent failover (ATF) using the Automatic Switchover (ASO) feature. This process is governed by a Quorum Witness that monitors the health of both arrays in a group. A fundamental design principle of HPE high-availability storage is to prevent "flapping"--a condition where a workload repeatedly bounces between two sites due to an unstable connection.

Consequently, the ASO process is designed to be unidirectional and sticky. When a primary site failure occurs and the Quorum Witness authorizes an automatic switchover, the secondary array becomes the "Upstream" (active) array and begins serving I/O. Once the original primary site is restored and the replication link is re-established, the arrays will automatically begin a resynchronization to ensure data consistency. However, even after the data is fully synced, the system will not automatically move the workload back to the original array. The administrator must perform a manual handover to return the volume collection to its preferred primary site.

NEW QUESTION # 60

A storage administrator will be implementing the HPE Peer Persistence feature between many arrays at many different sites across the company. The administrator will be using the Quorum Witness (QW) solution to determine when automatic failover will occur between the primary and secondary arrays. Which statement is correct regarding the use of this feature?

- A. The QW can only be installed as a VM solution on Red Hat Enterprise Linux or SUSE Linux.
- B. The QW requires IP and fibre channel (FC) connectivity between the QW and the storage arrays.
- C. The QW is active and will initiate a failover when a split-brain situation occurs between two HPE Peer Persistence storage arrays.
- **D. The QW should be installed at a site that is different from where the primary and secondary storage arrays are located.**

Answer: D

Explanation:

The HPE Quorum Witness (QW) is a critical component for facilitating Automatic Transparent Failover (ATF) in Peer Persistence, Active Peer Persistence, and Active Sync Replication configurations. Its primary architectural purpose is to act as an independent "tie-breaker" during a split-brain scenario—a situation where the storage arrays lose their heartbeat/replication links and both attempt to claim primary ownership of the volumes.

According to HPE documentation, the Quorum Witness must be installed at a third, neutral site that is geographically separate and

failure-independent from the sites hosting the primary and secondary arrays. This

"Third Site" placement ensures that if either site hosting an array experiences a total power or network failure, the remaining array can still reach the Quorum Witness via the network to obtain a "quorum vote" and safely assume the primary role without manual intervention. If the QW were placed at the same site as one of the arrays, a failure at that site would take down both the storage and the witness, preventing the surviving array at the other site from achieving quorum for an automatic failover.

Connectivity to the Quorum Witness is strictly over IP (Ethernet); it does not require Fibre Channel (FC) connectivity. While Option B suggests a limitation to specific Linux VMs, the QW is a self-contained application that can be installed on either physical or virtual machines running a variety of supported Linux host OS versions listed in the HPE SPOCK matrix (including RHEL, SUSE, and CentOS). Option A is slightly imprecise because the arrays themselves initiate the failover logic after querying the QW, rather than the QW "initiating" it autonomously. Therefore, the recommendation for third-site placement remains the most essential architectural requirement.

NEW QUESTION # 61

An administrator manages a group of HPE Alletra MP B10000 arrays through the DSCC console.

They want to improve the available space for the storage arrays. What should the administrator change to increase the achievable space efficiency?

- A. Change the High Availability option to Drive Level.
- B. Change the High Availability option to Enclosure Level.
- C. Change the Sparing Algorithm to Default.
- D. Change the Sparing Algorithm to Minimal.

Answer: A

Explanation:

The HPE Alletra MP B10000 (Block) utilizes a disaggregated shared-everything architecture where capacity is distributed across multiple NVMe drives and enclosures. To ensure 100% data availability, the system allows administrators to define the level of resilience required via the High Availability (HA) settings.

Architecturally, there is a direct trade-off between the level of hardware resilience and the achievable space efficiency (usable capacity).

Enclosure Level HA (Option D): This is the most resilient setting. It ensures the system can survive the total failure of an entire drive enclosure (JBOF) without losing data. To achieve this, the system must distribute parity and data stripes across different enclosures. This "vertical" redundancy requires a larger percentage of raw capacity to be reserved for parity, thereby reducing the net space efficiency. Drive Level HA (Option A): This setting protects against individual drive failures (similar to traditional RAID 6 or RAID-TP) but assumes the enclosure itself remains operational. Because the stripes can be optimized more densely within fewer hardware boundaries, the system requires less "overhead" capacity to maintain the protection state.

By changing the High Availability option to Drive Level, the administrator instructs the Alletra MP software to prioritize usable capacity over enclosure-level fault tolerance. This is a common optimization for customers who have multi-enclosure systems but prefer to maximize their ROI on raw NVMe flash. It is important to note that changing this setting may require a re-striping of existing data and should be done in accordance with the customer's risk profile and SLA requirements. The sparing algorithms (Options B and C) manage how much space is set aside for automatic rebuilds, but the primary driver of bulk space efficiency in a multi-enclosure MP cluster is the HA policy selection.

NEW QUESTION # 62

Which statement is correct regarding Fibre Channel over IP (FCIP)?

- A. It has no fixed distance limitation.
- B. It has the same latency as CWDM or DWDM.
- C. A single controller pair should be used for all circuits for the FCIP connectivity.
- D. It is reliant on fibre channel (FC) buffer credits.

Answer: A

Explanation:

Fibre Channel over IP (FCIP), as defined by IETF RFC 3821, is a tunneling protocol used to interconnect Fibre Channel (FC) storage area networks (SANs) over long distances using standard IP infrastructure. One of the primary architectural reasons for choosing FCIP over native Fibre Channel extension is its ability to overcome distance constraints.

Native Fibre Channel is governed by a flow-control mechanism called Buffer-to-Buffer (BB) Credits. In a native FC link, a frame cannot be sent until the sender has a "credit" from the receiver. As the distance between sites increases, the time it takes for an

acknowledgment (and thus the return of a credit) to travel back significantly increases. This creates a "protocol drop-off" where performance collapses once the distance exceeds the available buffer memory. In contrast, FCIP encapsulates FC frames into TCP/IP segments.

TCP/IP uses a different flow-control mechanism called windowing.

By moving the transport to TCP/IP, the storage traffic is no longer strictly bound by the physical light- propagation constraints of the FC buffer-credit mechanism. While latency still increases with distance (governed by the speed of light in fiber), FCIP provides no fixed protocol distance limitation, making it possible to replicate data across continents or globally (asynchronous replication) as long as the IP network provides a path. Option D is incorrect because the "tunnel" handles the delivery, effectively shielding the FC fabric from the long-haul buffer requirement. Option A is incorrect because the encapsulation process in FCIP always adds more latency than "transparent" optical extensions like DWDM. Therefore, the architectural value of FCIP is its ability to provide "unlimited" distance connectivity using existing WAN infrastructure.

NEW QUESTION # 63

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