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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12

An HPE Partner is talking to a potential customer about the HPE Alletra MP B10000 storage array solution. What is an important feature the partner should share with the customer?

- A. When writing data into volatile memory, SCM is persistent with batteries.
- B. The behavior of common applications can be predicted with Workload Simulator.
- C. Stripe sizes vary from 16 (data) + 3 (parity) to 146 (data) + 3 (parity).
- D. If locally decodable EC is implemented by the customer, this will increase rebuild time.

Answer: C

Explanation:

The HPE Alletra MP B10000 (Block storage) represents a paradigm shift in HPE's high-end storage strategy by utilizing a modular, disaggregated architecture. One of the most significant technical advantages of this platform is its Advanced Erasure Coding and the way it handles data layout across the disaggregated NVMe capacity.

According to the HPE Alletra MP technical deep-dive documents, the system does not use traditional fixed RAID groups. Instead, it uses a massive, distributed stripe mechanism. The software is capable of varying the stripe width dynamically based on the number of available drives and nodes in the cluster. This allows the system to achieve industry-leading capacity efficiency. Specifically, the system can utilize stripe sizes ranging from a minimum of 16+3 to a maximum of 146+3. This high data-to-parity ratio (e.g., 146 data segments for every 3 parity segments) allows customers to realize significantly higher usable capacity from their raw NVMe investment compared to traditional RAID 6 (6+2 or 8+2) or even typical erasure coding in competitive mid-range arrays. Option A is technically incorrect because, in the Alletra MP, data is typically committed to persistent NVMe media or SCM (Storage Class Memory) in a way that doesn't rely on legacy battery-backed volatile DRAM in the same manner as older controllers. Option C is incorrect because Locally Decodable Erasure Coding is actually designed to reduce rebuild times by requiring fewer IOPS to reconstruct a missing fragment. Option D, while "Workload Simulator" is a tool used in sizing (NinjaStars), the most "important" architectural feature listed that differentiates the Alletra MP's efficiency is its unique and massive scaling stripe width.

NEW QUESTION # 13

What will occur when a new node is added to an existing HPE Alletra MP X10000 storage array?

- A. An automatic cluster upgrade is supported across all releases of the operating systems and models.
- **B. An automatic rebalancing across JBOFs occurs as soon as a new drive or an additional JBOF is added.**
- C. The expanded capacity is immediately available in the shared pool.
- D. Additional drives can be used to increase drive protection beyond the default limit of three drives.

Answer: B

Explanation:

The HPE Alletra MP X10000 is an object and file storage solution utilizing a Disaggregated Shared- Everything (DASE) architecture. A key differentiator of this disaggregated design is the stateless nature of the controller nodes and the centralized management of the data plane.

When a cluster expansion occurs-such as adding a new controller node or an additional JBOF (Just a Bunch of Flash) storage shelf-the system is designed to automatically optimize the workload distribution.

According to the HPE Alletra MP Architectural Guide, adding an additional JBOF or drives triggers an automatic rebalancing of the data stripes. Unlike older architectures where manual rebalancing services were required (such as in the 3PAR/B10000 block lineage), the X10000 uses a sophisticated hashing mechanism.

Specifically, data is distributed across DSPs (Data Storage Processors) which are virtualized management units. Upon the addition of hardware, these DSPs are rebalanced across the available compute and storage resources in a matter of seconds. Because the nodes are stateless and state is persisted only within the JBOFs, this rebalancing happens with minimal performance impact and no need for the massive "data movement" traditionally associated with expanding a RAID group. This ensures that as a customer scales from the minimum of 3 nodes up to 8 or more, the system always maintains an optimal load balance and utilizes all available flash bandwidth and compute cycles in parallel.

NEW QUESTION # 14

A customer purchased an HPE GreenLake for File Storage solution and implemented the replication feature.

Which statement is correct regarding this feature?

- **A. N:1 and 1:N replication is supported, with snapshots taken at the directory level.**
- B. Data reduction, including deduplication, is performed between the storage arrays.
- C. Two protected paths configured on the same path can be used to replicate to the same peer.
- D. Client hardware has read-write access to both the source and destination replication arrays.

Answer: A

Explanation:

HPE GreenLake for File Storage is built upon a disaggregated, shared-everything (DASE) architecture powered by VAST Data software. The replication mechanism in this environment is fundamentally different from traditional block-based replication. Instead of replicating entire volumes or LUNs, HPE GreenLake for File Storage performs replication at the directory level.

According to the HPE GreenLake for File Storage Administrator Guide, the system utilizes a snapshot- based asynchronous

replication engine. This allows for highly flexible topologies, including N:1 (fan-in) and 1:N (fan-out) configurations, which are essential for modern distributed data environments and centralized backup strategies. Because the solution is file-based, it leverages "Views" (or shares) that point to specific directory paths. Protection policies and snapshot schedules are applied directly to these paths, ensuring that only the specific datasets required for disaster recovery are replicated.

Option B is a common point of confusion; while the system is inherently "reduction-aware" and uses similarity-based data reduction (deduplication and compression) to save space on the physical media, the replication process itself focuses on the metadata and unique data blocks associated with the directory-level snapshots. Option A is incorrect because, in an asynchronous replication relationship, the destination is typically Read-Only until a failover or clone operation is initiated. Option D is incorrect as the management of protected paths follows strict pairing rules to prevent configuration conflicts. Thus, the support for flexible fan-in/fan-out topologies and granular directory-level protection (Option C) is the defining characteristic of this enterprise file solution.

NEW QUESTION # 15

Which statement is correct regarding the HPE Timeless Program for the HPE Alletra Storage MP solutions?

- A. It requires an up-front reservation fee that is refunded when the customer extends their support.
- B. It requires a switched configuration of at least four CNodes and four DNodes.
- **C. It must have a minimum of 16 cores per CNode and 42TB RAW of storage.**
- D. It must have a minimum of 32 cores per CNode and 92TB RAW of storage.

Answer: C

Explanation:

The HPE Timeless Program is a strategic lifecycle management offering designed to future-proof customer investments in the HPE Alletra Storage MP platform (specifically the B10000 for Block). The program provides benefits such as a non-disruptive controller refresh at no additional cost after three or more years, all-inclusive software licensing, and a 100% data availability guarantee. To qualify for the HPE Timeless Program, the storage configuration must meet specific minimum hardware requirements to ensure it can support future generations of controller technology without a "forklift" upgrade.

According to the HPE Master ASE Advanced Storage Architect training materials and program guidelines, the entry-level qualification for the Timeless benefit on Alletra MP requires the system to be configured with at least 16-core controller nodes (CNodes) and a minimum capacity threshold of 42TB RAW storage.

While the Alletra MP architecture supports 8-core, 16-core, and 32-core nodes, the 8-core "entry" models are often excluded from certain enterprise-level refresh programs because they may not provide sufficient overhead for the performance requirements of next-generation operating systems. Option C (32 cores and 92TB) represents a higher-tier mission-critical configuration but is not the minimum required for program eligibility. Option A is incorrect as the Alletra MP supports both switchless (2-node) and switched (multi-node) configurations, with switchless systems also being eligible. Option B is incorrect as the program is built into the support contract and purchase price rather than requiring a separate refundable "reservation fee".

NEW QUESTION # 16

An administrator needs to create an FCIP trunk connection between two data centers to interconnect their Brocade fibre data fabrics. Refer to the exhibit.

Based on this configuration, which statement is correct?

- A. This is an invalid configuration. FCIP trunks must be configured using fibre channel ports.
- B. This is a valid configuration. The trunk will have one active connection and two standby connections.
- **C. This is a valid configuration. The trunk will have two active connections and one standby connection.**
- D. This is an invalid configuration. FOP trunks must be configured with an even number of circuits.

Answer: C

Explanation:

In a Brocade FCIP (Fibre Channel over IP) environment, an extension trunk (or tunnel) can be composed of multiple circuits to provide both increased bandwidth and high availability. The operational state of these circuits—whether they are active or standby—is determined by the Metric assigned to each individual circuit.

According to the Brocade Fabric OS Extension Configuration Guide, all circuits within a tunnel or trunk have a metric of either 0 or 1.

* Metric 0: This is the default value and indicates an active circuit. If multiple circuits are configured with Metric 0, they will operate in an active-active mode, and the load will be balanced across them.

* Metric 1: This indicates a standby (or passive) circuit. Standby circuits with Metric 1 are not used for data transmission unless all Metric 0 circuits within that tunnel/failover group fail.

In the provided exhibit, there is a single VE_Port (Virtual E_Port) trunking three individual IP circuits:

* ge0 is configured with Metric 0 (Active).

* ge1 is configured with Metric 0 (Active).

* ge2 is configured with Metric 1 (Standby).

Therefore, this is a valid configuration where the system will utilize the two Metric 0 circuits (ge0 and ge1) simultaneously for data traffic, providing an active-active load-balanced connection. The third circuit (ge2) will remain in a standby state, only becoming active to maintain the link if both primary circuits go offline.

Options A and B are incorrect because trunks do not require an even number of circuits, and FCIP trunks are specifically established over Ethernet (ge) ports, not native Fibre Channel ports.

NEW QUESTION # 17

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