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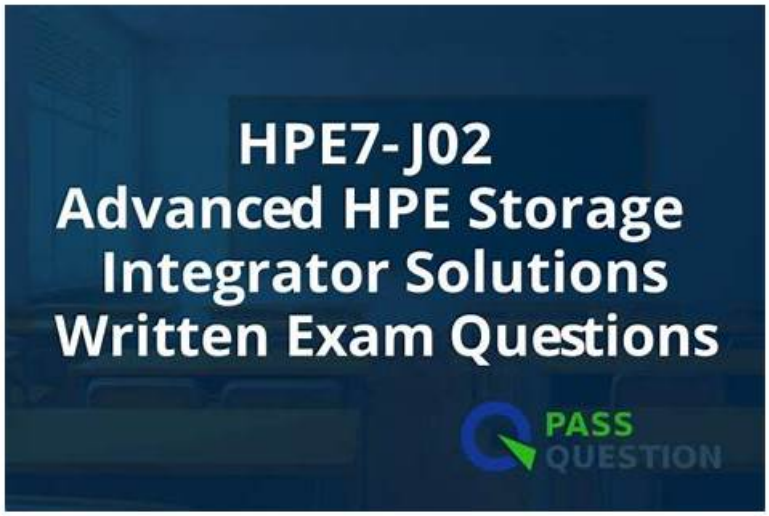

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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56
A customer has a diverse NoSQL big data and data analytics workload implementation. This workload runs on bare-metal servers to achieve the most efficient performance. The customer requires a new storage solution to meet their growing data needs. Which solution will be best for the customer?

- A. HPE Alletra dHCI
- B. HPE SimpliVity
- C. HPE Alletra Storage Server 4110
- D. HPE GreenLake for Private Business Cloud Edition (PBCE)

Answer: C

Explanation:
For workloads like NoSQL databases (e.g., MongoDB, Cassandra), Big Data analytics (e.g., Hadoop, Spark), and high-throughput data lakes, the primary performance bottleneck is often the latency and bandwidth between the compute and the storage media. When a customer specifies they are running on bare- metal servers to achieve "most efficient performance," they are looking for a solution that minimizes the overhead of hypervisors and provides direct, high-speed access to storage.
The HPE Alletra Storage Server 4000 series, and specifically the Alletra 4110, is purposefully engineered for this "Data-First" server-based storage market. The Alletra 4110 is a 1U, all-NVMe ultra-dense storage server that supports dual 4th or 5th Gen Intel Xeon Scalable processors and PCIe Gen5 throughput. Unlike traditional storage arrays that connect via a SAN, the Alletra 4110 functions as high-performance Software- Defined Storage (SDS) infrastructure. It is designed to run the application and the data storage on the same high-density nodes, or to act as a high-speed storage tier for bare-metal clusters.
Other options are less suitable for this specific "bare-metal NoSQL" requirement:
* HPE SimpliVity (B) is a Hyperconverged Infrastructure (HCI) solution that is inherently tied to a hypervisor (VMware or Hyper-V), which contradicts the customer's bare-metal requirement.
* HPE Alletra dHCI (C) is a disaggregated HCI solution that automates a SAN environment but is also centered around VMware virtualization.
* HPE GreenLake for Private Cloud Business Edition (A) is a service-oriented offering primarily for managing virtualized private clouds.
The Alletra 4110 provides the massive I/O throughput (up to 315 GB/s of PCIe Gen5 bandwidth to SSDs) and the low-latency NVMe performance that NoSQL and analytics workloads demand, making it the superior architectural choice for bare-metal, data-intensive environments.

NEW QUESTION # 57
A customer purchased a data protection solution that includes Cohesity and a mixture of HPE Alletra 4000 storage servers. Which management tool should the customer use to manage their Cohesity policies?

- A. Cohesity Helios
- B. HPE GreenLake Cohesity
- C. HPE GreenLake Data Ops Manager
- D. Cohesity SpanFS

Answer: A

Explanation:
The management of an HPE Solution with Cohesity is centered around providing a unified, global experience across hybrid and multi-cloud environments. For managing data protection policies, alerting, and operational oversight across one or more Cohesity clusters, the correct tool is Cohesity Helios.
Cohesity Helios is a SaaS-based management platform that provides a "single pane of glass" for the entire Cohesity data estate. According to HPE and Cohesity technical documentation, Helios utilizes machine learning and AI-driven analytics to offer proactive health monitoring and global search capabilities. It allows administrators to define a single set of data protection policies-covering variables like frequency, retention, and replication-and apply them universally across clusters located on-premises (on HPE Alletra 4000 servers), at the edge, or in the public cloud.
In contrast, SpanFS (Option D) is the underlying web-scale distributed file system that powers the Cohesity DataPlatform, but it is not a management tool itself. HPE GreenLake Data Ops Manager (Option B) is part of the HPE Data Services Cloud Console (DSCC) primarily used for managing native HPE Alletra Block and File storage arrays, rather than third-party software-defined platforms like Cohesity. While the solution can be procured via HPE GreenLake Flex (Option A), the operational day-to-day management of the software policies resides within the Helios console to ensure consistency with Cohesity's broader ecosystem. Helios ensures that as the customer scales their Alletra 4000 footprint, the management of their secondary data remains simplified and policy-driven.

NEW QUESTION # 58
A customer has a diverse NoSQL big data and data analytics workload implementation. This workload runs on bare-metal servers to achieve the most efficient performance. The customer requires a new storage solution to meet their growing data needs. Which solution will be best for the customer?

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- C. HPE Alletra Storage Server 4110
- D. HPE GreenLake for Private Business Cloud Edition (PBCE)

Answer: C

Explanation:
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NEW QUESTION # 59
A customer currently has an HPE Alletra 9000 with data reduction on all volumes and plans to migrate to an HPE Alletra MP B10000. Which formula should be used to size the new solution?

- A. Size to consumption multiplied by 1.25
- B. Size to original capacity
- C. Size to consumption multiplied by 1.35
- D. Size to consumption multiplied by 1.5

Answer: A

Explanation:
When sizing a migration from a highly efficient array like the HPE Alletra 9000 (or Primera) to the next- generation HPE Alletra MP B10000, storage architects must account for the difference between the "Written Capacity" (what the host thinks it has stored) and the "Consumed Capacity" (the physical space used after data reduction).
The standard best practice for an HPE Master ASE when performing these migrations is to Size to consumption multiplied by 1.25. This "1.25 factor" (representing a 25% overhead) is the recommended safety margin used in sizing tools like HPE NinjaStars and the HPE Cloud Physics assessment reports.
This 25% buffer is designed to cover several critical architectural requirements:
* System Metadata and Overhead: Both the Alletra 9000 and Alletra MP require physical capacity to store internal metadata, map tables, and the structures required for their respective data reduction engines.
* Snapshot Reserve: While snapshots are thin and pointer-based, they still consume physical space as data changes over time. The 1.25 multiplier ensures there is enough "headroom" for typical snapshot retention policies.
* Data Reduction Parity: Data reduction ratios (deduplication and compression) can fluctuate based on the specific workload. Sizing exactly to current consumption without a buffer risks an out-of-space condition if the new array's reduction engine handles a specific block pattern slightly differently during the initial ingest.
* Operational Performance: SSD-based arrays perform best when they are not "packed" to 100% capacity, as the garbage collection and wear-leveling processes require free blocks to operate efficiently.
Sizing to "original capacity" (Option D) would lead to a massive over-provisioning and wasted cost, as it ignores the benefits of modern data reduction. Option C (1.5) is generally considered overly conservative for modern flash environments, while 1.25 provides the optimal balance of cost-efficiency and technical risk mitigation.

NEW QUESTION # 60
An HPE Partner is designing a software-defined storage (SDS) solution that includes HPE Alletra 4000 storage servers and the HPE Ezmeral Data Fabric software solution. The customer wants to manage the HPE Alletra 4000 storage servers using HPE

GreenLake. Which component in HPE GreenLake should the customer use?

- A. File Storage
- B. Compute Ops Manager
- C. Block Storage
- D. Data Ops Manager

Answer: B

Explanation:
The HPE Alletra 4000 series (specifically the Alletra 4110 and 4120) are technically classified as Storage Servers. Unlike traditional "closed" storage arrays like the Alletra 6000 or 9000, the Alletra 4000s are open platforms derived from the HPE Apollo lineage, designed to run Software-Defined Storage (SDS) stacks such as HPE Ezmeral Data Fabric, Scality, or Qumulo.
Because these systems are fundamentally high-density servers, their lifecycle management-including firmware updates (BIOS, iLO, controllers), health monitoring, and remote configuration-is integrated into the HPE GreenLake for Compute Ops Management (COM) service. COM provides a cloud-native console designed specifically for server administrators to manage fleets of ProLiant and Alletra 4000 servers from a single pane of glass.
While the customer is building a storage solution, the Data Ops Manager (DOM) (Option D) is the control plane for HPE's specialized block and file arrays (managed via DSCC) and is not the tool used for raw storage server hardware management. Similarly, the "File Storage" and "Block Storage" tiles in GreenLake refer to specific Storage-as-a-Service (STaaS) offerings rather than the underlying hardware management for SDS building blocks. For a partner designing an Ezmeral solution on Alletra 4000, Compute Ops Management is the correct tool to ensure the hardware stays compliant with the latest HPE Service Pack for ProLiant (SPP) and firmware baselines required for stable SDS operations.

NEW QUESTION # 61
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