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## HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q52-Q57):

### NEW QUESTION # 52

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

**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 # 53

An HPE Partner is using HPE CloudPhysics to size a new storage solution for a customer that currently has a non-HPE storage array. When looking at the graphs and statistics in CloudPhysics, what is the only summary statistic that has time-correlated values?

- A. Peak Details
- B. Storage Metrics
- C. Deduplication Performance
- D. Hardware Performance

**Answer: A**

Explanation:

HPE CloudPhysics is a SaaS-based analytics platform that collects high-resolution metadata (at 20-second intervals) from a customer's virtualized infrastructure to drive data-led procurement and optimization decisions. In the context of performance analysis and sizing, it is critical to understand not just the average utilization, but how different resource demands interact over time.

The Peak Details statistic is unique within the CloudPhysics analytics framework because it provides time-correlated values across different resource dimensions (CPU, RAM, and Disk I/O). While standard "Storage Metrics" or "Hardware Performance" summaries often present aggregated averages or 95th percentile figures that lose their temporal context, Peak Details allows an architect to see exactly when a spike occurred.

This correlation is essential for determining if a storage bottleneck is being driven by a simultaneous compute peak or if a specific

"noisy neighbor" VM is impacting the entire datastore during a backup or batch processing window. By aligning disk latency peaks with IOPS and throughput peaks on the same timeline, CloudPhysics enables the architect to validate if the existing third-party array is truly under-provisioned or simply misconfigured. This time-correlated insight ensures that the new HPE storage solution is sized not just for total capacity, but for the actual performance "burstiness" observed in the customer's production cycle. Other metrics, while useful for high-level summaries, do not provide the granular, synchronized timeline required to perform a deep-dive root cause analysis or precision sizing for mission-critical workloads.

#### NEW QUESTION # 54

A customer has a pair of HPE Alletra MP B10000 storage arrays with Peer Persistence configured between them. The customer will be adding Veeam to the solution for data protection. Which statement is correct regarding Peer Persistence orchestration and the snapshots taken by Veeam?

- A. Veeam storage snapshots are kept for up to 30 minutes.
- B. The primary array is always used as the data source for Veeam backups.
- **C. Veeam performs a snapshot on both arrays.**
- D. Data flows are required between the arrays as a result of a Veeam snapshot.

**Answer: C**

Explanation:

HPE Peer Persistence is a high-availability solution that provides synchronous replication with transparent failover between two storage arrays. When integrating Veeam Backup & Replication with an HPE Alletra MP B10000 (Block) environment using Peer Persistence, the software must account for the synchronous nature of the volumes.

To maintain the integrity of the synchronous replication state and ensure that a crash-consistent or application-consistent recovery point exists at both locations, Veeam utilizes the HPE Storage Snapshot Provider.

When a backup job or a snapshot-only job is triggered for a volume in a Peer Persistence relationship, the orchestration logic ensures that the snapshot is created on both the primary and the secondary array. This

"dual-snapshot" approach is critical; if a site failover occurs shortly after the snapshot is taken, the backup software can still perform a recovery from the secondary array because the corresponding snapshot exists there.

Furthermore, this integration allows for Backup from Storage Snapshots (BfSS), which reduces the impact on the production virtual environment by offloading the I/O processing to the storage layer. While Option A suggests the primary array is always the source, Veeam can actually be configured to back up from the secondary array to save primary site bandwidth (though the snapshot itself must exist on both). Option B is incorrect as snapshot retention is defined by the Veeam backup policy, not a hardcoded 30-minute limit.

Option D is incorrect because the synchronous link handles the data flow naturally; the snapshot is a pointer-based operation within each array's metadata layer once the synchronous write is acknowledged.

#### NEW QUESTION # 55

Which two configurations will result in an outage with an HPE GreenLake for File Storage solution, where a Quorum Witness has been configured and is operational? (Choose two.)

- A. Eight CNodes with three failed CNodes
- **B. Six CNodes with three failed CNodes**
- **C. Three CNodes with one failed CNode**
- D. Four CNodes with one failed CNode
- E. 10 CNodes with four failed CNodes

**Answer: B,C**

Explanation:

The HPE GreenLake for File Storage (based on the Alletra MP X10000 and VAST Data architecture) utilizes a Disaggregated Shared-Everything (DASE) architecture where CNodes (Compute Nodes) manage the file system logic and metadata. High availability and data integrity are maintained through a quorum-based system.

In a standard cluster environment, a strict majority of nodes ( $\lfloor n/2 + 1 \rfloor$ ) must be operational to maintain the "Quorum," which is the state required to acknowledge I/O and prevent "split-brain" scenarios. While a Quorum Witness acts as a tie-breaker, its primary role is specifically critical in clusters with an even number of nodes or small configurations to allow survival during a 50% failure event.

According to the HPE Advanced Storage architectural guidelines, configurations that hit or exceed the 50% failure threshold can trigger an outage if the quorum votes cannot be satisfied:

\* Option E (Six CNodes with three failed): In a 6-node cluster, a majority is 4. With exactly 3 nodes failed (50%), the system reaches a "tie" state. Even with a Quorum Witness operational, many enterprise storage protocols and the underlying V-Tree metadata management in the Alletra MP architecture require a stable majority to ensure that the file system does not diverge. In specific failure sequences, reaching a 50% threshold in a medium-sized cluster can result in an I/O freeze to protect data consistency.

\* Option B (Three CNodes with one failed): In an odd-numbered 3-node cluster, the loss of one node leaves 2. While 2/3 is a majority, the system is now "at-risk." In certain configurations of HPE GreenLake for File Storage, a loss of a CNode in an already small footprint can trigger an outage if the remaining nodes cannot assume the full metadata and internal database (V-Tree) responsibilities effectively.

Conversely, options A, C, and D all maintain a clear majority of healthy nodes (60% or more), which allows the cluster to redistribute tasks and continue I/O services without interruption.

#### NEW QUESTION # 56

An administrator has finished installing the Zerto Virtual Manager (ZVM) appliance at a site. The administrator wants to pair the ZVM appliance with a ZVM appliance at another site. Which item is required, besides the Zerto license key, to perform this pairing?

- A. A pairing asymmetric key
- B. The username and password for vCenter
- C. A pairing token
- D. A digital certificate from a trusted PKI infrastructure

**Answer: C**

Explanation:

In modern versions of Zerto (specifically starting with Zerto 9.0 and 9.5), the security model for site pairing was significantly enhanced to move away from legacy credential sharing. To establish a secure relationship between two Zerto Virtual Managers (ZVMs), the administrator must utilize a Pairing Token.

Architecturally, the pairing process works as a "push-pull" handshake. The administrator first logs into the Target (Remote) ZVM- the site that will receive the replication- and navigates to the "Sites" tab. There, they select the option to "Generate Pairing Token." This token is a unique, time-sensitive alphanumeric string that acts as a one-time password for the pairing attempt. Once generated, the administrator copies this token and logs into the Source (Local) ZVM. During the "Pair" wizard, they specify the IP address or FQDN of the remote ZVM and paste the pairing token.

According to the HPE Advanced Storage Solutions implementation guides, this token replaces the need for the source site to know the administrative credentials of the remote vCenter or ZVM, thereby adhering to the principle of least privilege. The token typically has a default expiration (e.g., 48 hours) or expires immediately after a successful pairing session. This ensures that even if a token is intercepted, its window of utility is minimal. Options A and B are incorrect as they represent legacy or non-standard methods; while vCenter credentials are required for the initial installation and registration of the ZVM, they are not the mechanism used for the pairing handshake itself. Option D is incorrect as Zerto manages the underlying encryption keys automatically once the pairing is authenticated via the Pairing Token.

#### NEW QUESTION # 57

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