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## HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q42-Q47):

### NEW QUESTION # 42

Match the fibre channel topology to its use case. Each answer will be used once.

**Answer:**

Explanation:

Explanation:

- \* Meshed fabric: Has many-to-many connectivity and requires high performance.
- \* Cascaded fabric: Data access is localized with servers and storage connected to the same switch.
- \* Core-edge fabric: Data access is a mix of local and distributed.
- \* Ring fabric: Accommodates diverse geographic conditions and location.

In the design of modern Storage Area Networks (SANs), selecting the right topology is critical for balancing performance, scalability, and cost. Each of these Brocade/HPE B-series architectures serves a specific workload profile:

**Meshed Fabric:** This design provides the highest level of redundancy and performance by connecting switches in an "any-to-any" pattern. Because every switch is connected to multiple other switches, it provides many-to-many connectivity and minimized "hop counts," making it ideal for high-performance environments where application traffic is unpredictable and widely distributed.

**Cascaded Fabric:** The simplest topology, where switches are connected in a serial or daisy-chain fashion. It is most effective in small environments where data access is localized—meaning the server and the storage it needs are physically connected to the same switch, minimizing Inter-Switch Link (ISL) traversal.

**Core-Edge Fabric:** The standard for enterprise data centers. Servers are connected to "Edge" switches, and storage is connected to a high-capacity "Core". This allows for a mix of local and distributed data access.

Large enterprises use this to scale easily by adding edge switches without disrupting the core storage connectivity.

**Ring Fabric:** By connecting switches in a closed loop, this topology is designed to accommodate diverse geographic conditions. If a single link between two locations fails, traffic can be re-routed the other way around the ring. This provides a cost-effective way to link multiple sites or campus buildings while maintaining fabric integrity.

### NEW QUESTION # 43

A customer is concerned about the long distances between their data centers and significant latencies that might exist between the SAN fabrics at the two data centers. Since SCSI write operations can involve multiple handshake messages between the target and initiator, which Brocade feature should be used to double the recommended distance, but maintain the same latency as a shorter haul link?

- A. Write Acceleration
- B. Leave Fast
- C. FCIP trunking
- **D. FastWrite**

**Answer: D**

Explanation:

Standard SCSI write operations are inherently sensitive to distance because they require multiple round-trip handshakes before data is actually transmitted. A typical write involves: 1) the Command, 2) a Transfer Ready (XFER\_RDY) response from the target, 3) the Data, and 4) the Status. In a long-distance SAN, each of these round trips adds significant "latency wait time," severely degrading performance as distance increases.

To solve this, Brocade (HPE B-series) utilizes a protocol optimization feature known as FastWrite. FastWrite works by creating a Proxy Target (PT) local to the initiator host and a Proxy Initiator (PI) local to the target storage device. When the host issues a SCSI write command, the local Brocade switch (acting as the Proxy Target) immediately sends the XFER\_RDY back to the host without waiting for the signal to travel across the long-distance link. This allows the host to send the data segment immediately.

By eliminating the need for every handshake message to traverse the distance multiple times, FastWrite significantly reduces the aggregate latency felt by the application. Architecturally, this enables customers to extend their SAN fabrics over double the distance (and often much further) while maintaining performance comparable to a significantly shorter link. This is critical for asynchronous replication and remote copy applications that issue large I/O blocks. Option C (Write Acceleration) is a generic term often used by other vendors, while FastWrite is the specific, validated Brocade feature name used in HPE Master ASE documentation for this protocol optimization.

### NEW QUESTION # 44

A customer wants to implement an HPE Morpheus life-cycle management solution at a single site with 1004 VMs using a redundant architecture and distributed services. Which statement is correct regarding the setup and operation of this solution?

- A. It is a simple installation and configuration, wherein Morpheus installs and configures all required services.
- B. Upgrades require a minimal amount of downtime when updating to a newer version of Morpheus.
- **C. The solution requires a minimum of six VMs, but it is recommended to have a minimum of 10 VMs.**
- D. The RabbitMQ load balancer is a required component of the installation.

**Answer: C**

Explanation:

When designing an HPE Morpheus environment for an enterprise-scale workload (such as 1,000+ VMs), a standalone "all-in-one" installation is insufficient for high availability (HA) and performance requirements.

Instead, a 3-node Distributed Architecture must be implemented to ensure redundancy across all critical service layers.

In a distributed, redundant Morpheus setup, the architecture is broken down into three primary tiers: the Application tier, the Database tier (MySQL/Percona), and the Messaging/Search tier (Elasticsearch and RabbitMQ). To achieve a basic redundant footprint, you require at least two Morpheus application nodes, three database nodes (for quorum), and a messaging cluster. According to the HPE Morpheus Architecture and Sizing Guide, a standard HA deployment starts with a minimum of six VMs to separate these functions.

However, for a production environment of this size, it is recommended to have a minimum of 10 VMs. This expanded footprint typically includes 3 App nodes, 3 Database nodes, and a 3-node cluster for Elasticsearch /RabbitMQ, plus a dedicated load balancer or management node, ensuring that the loss of any single host does not impact the management plane's availability.

Option C is incorrect because a distributed installation is significantly more complex than the "all-in-one" appliance approach and requires manual configuration of externalized services. Option B is slightly inaccurate because while RabbitMQ itself is required, a dedicated "RabbitMQ load balancer" is often handled by the primary application load balancer (like an F5 or NetScaler) rather than being a specific required installation component. Option D is incorrect as upgrades in a distributed environment involve a coordinated, multi-step process across all nodes, which typically requires a scheduled maintenance window rather than "minimal" downtime.

#### NEW QUESTION # 45

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 # 46

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 # 47

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