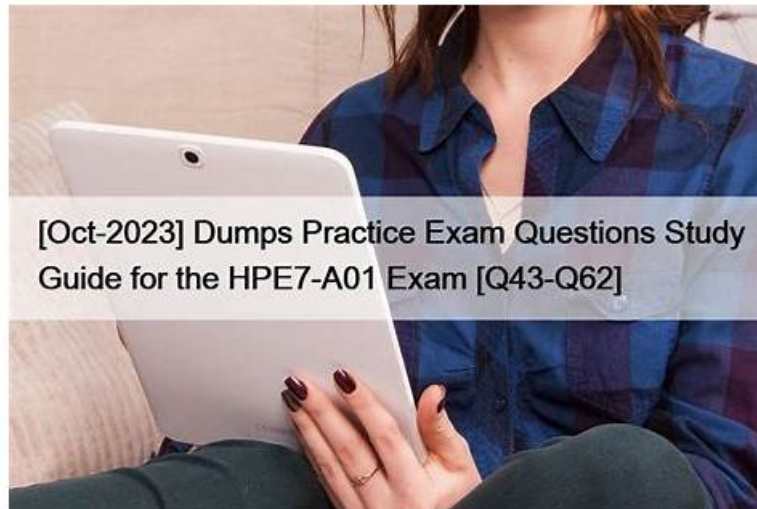


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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q55-Q60):

NEW QUESTION # 55

An HPE customer purchased an HPE B-Series SN7000B SAN fabric switch. QoS is currently not enabled. Which two statements are correct regarding buffer-to-buffer (BB) credits and the operation of the switch? (Choose two.)

- A. By default, all BB credits are reserved.
- B. BB credits are based on link speed and frame size.
- C. BB credits can be adjusted for specific applications or operating environments, but they must be agreed upon among all switches to allow the formation of the fabric.
- D. Each user port reserves eight buffer credits when online or offline.
- E. The default window size for fibre channel (FC) frame transmission is 1, but can be increased to 8 or 16, depending on the switch model.

Answer: B,D

Explanation:

The HPE B-Series SN7000B is a high-performance Director based on Brocade Gen 7 (G7) technology.

Buffer-to-Buffer (BB) credits are the fundamental flow-control mechanism used in Fibre Channel to prevent frame loss and manage congestion.

Statement D is a foundational principle of SAN architecture: BB credits are based on link speed and frame size. In an FC fabric, the number of credits required to "fill the pipe" (keep data moving without waiting for acknowledgments) is a direct function of the Round Trip Time (RTT), which is determined by the physical distance, the speed of the link (e.g., 64Gb/s vs 32Gb/s), and the size of the frames being sent (typically 2KB).

As link speeds increase, more buffer credits are required to maintain full throughput over the same distance.

Statement C reflects a specific technical default in the Brocade Fabric OS (FOS) for Gen 7 hardware. To ensure that ports can initialize and handle basic traffic immediately upon being enabled, the switch reserves a default number of credits from the ASIC's global buffer pool. For user ports on these high-density blades, the system reserves eight buffer credits per port, regardless of whether the port is currently online or offline.

This reservation ensures that the port has the minimum resources necessary to complete a fabric login (FLOGI) or negotiate a link without competing for pool resources.

Option E is incorrect because the entire pool is not reserved; a significant portion of the ASIC's buffers remains in a "shared pool" that can be dynamically allocated for long-distance links or high-demand ports via the "Extended Fabrics" feature. Option B is incorrect as it confuses the TCP windowing concept with FC credit-based flow control. Option A is incorrect because BB credits are a local port-to-port negotiation (link-level) and do not need a fabric-wide global "agreement" to form the fabric.

NEW QUESTION # 56

A customer is interested in a backup repository solution with long-term data retention. The customer has the following requirements:

- * Needs to leverage secondary storage for development operations and development testing
 - * Fast granular restore and instant recovery features
 - * Cost-effective, yet scalable solution that provides built-in replication features
- What is the best solution for this customer?

- A. HPE dHCI and Cohesity
- B. HPE Alletra 5000s and Scality RING
- C. HPE Alletra 4000s and Commvault
- **D. HPE Alletra 5000s and Veeam**

Answer: D

Explanation:

The requirements provided point toward a "Secondary Storage" use case where the data must be more than just a "cold" backup; it needs to be "active" for DevOps and testing. The HPE Alletra 5000 (the successor to the HPE Nimble Storage Adaptive Flash arrays) is specifically engineered for this hybrid role.

Architecturally, the Alletra 5000 utilizes the CASL (Content Aware Storage Architecture) file system. This allows it to perform high-speed inline deduplication and compression, making it a cost-effective repository for long-term retention. Crucially for the customer's DevOps requirement, Alletra 5000 supports Zero-Copy Clones. This means the storage administrator can instantly create multiple copies of production datasets for development and testing without consuming additional storage space or impacting the performance of the primary backup repository.

When paired with Veeam Backup & Replication, the solution meets the "fast granular restore" and "instant recovery" requirements perfectly. Veeam's vPower technology enables Instant VM Recovery, which allows a virtual machine to be started directly from the compressed and deduplicated backup file on the Alletra 5000.

Because the Alletra 5000 includes a flash tier for metadata and frequently accessed data, it provides the necessary IOPS to run these recovered VMs or DevTest workloads with near-production performance.

In contrast, while Cohesity (Option B) is a strong secondary platform, HPE dHCI is a primary infrastructure solution and not just a backup repository. Scality RING (Option C) is an object storage solution geared toward massive scale and petabyte-level archives, but it lacks the performance characteristics for "instant recovery" and seamless DevOps cloning found in the Alletra 5000. HPE Alletra 4000 (Option D) is a high-density data server (formerly Apollo) which provides the raw hardware but lacks the integrated CASL-based intelligence and "Better Together" orchestration that the Alletra 5000/Veeam partnership offers for this specific customer profile.

NEW QUESTION # 57

A storage administrator is configuring a trunk between two Brocade fibre channel switches, but the trunk fails to initialize. What

should the administrator do to solve this issue?

- **A. Install a trunking license.**
- B. Convert the ports to F-ports.
- C. Place the ports in different port groups.
- D. Reduce the number of ports in the trunk to 10.

Answer: A

Explanation:

In Brocade B-series Fibre Channel fabrics, ISL (Inter-Switch Link) Trunking is an optional licensed feature that allows multiple physical links between two switches to be aggregated into a single logical high-bandwidth pipe. While two switches can connect via a standard ISL without a specific license, the "Trunking" capability—which enables frame-level load balancing across those links—requires the ISL Trunking license to be installed and active on both participating switches.

According to the Brocade Fabric OS Administration Guide, if the license is missing or expired, the ports will function as individual ISLs rather than a unified trunk. This leads to the "failure to initialize" as a trunk, where the ports might stay in a "Master" or "Active" state individually but never form a "Trunk port" relationship. A common troubleshooting step after installing the license is to portdisable and then portenable the affected ports to force the fabric to re-negotiate the trunking capability.

Options B and D are technically incorrect because trunking specifically requires E_ports (Expansion Ports) used for switch-to-switch connectivity; converting them to F_ports (Fabric ports) would make them intended for end-device (host/storage) connectivity, which does not support ISL trunking. Furthermore, for a trunk to form, the ports must be within the same physical port group on the ASIC (e.g., ports 0-7 or 8-15 on many fixed-port switches), making Option D the opposite of what is required for success. By ensuring the Trunking license is present, the administrator enables the hardware and software to utilize the Exchange-Based Routing (EBR) or frame-based trunking protocols necessary for the solution.

NEW QUESTION # 58

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

Answer: B

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 # 59

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 # 60

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