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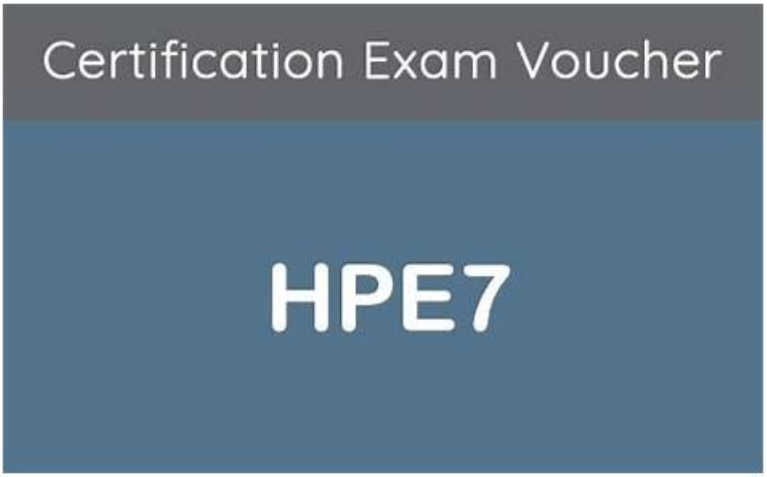

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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q41-Q46):

NEW QUESTION # 41
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. Each user port reserves eight buffer credits when online or offline.
- B. 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.
- 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. By default, all BB credits are reserved.
- E. BB credits are based on link speed and frame size.

Answer: A,E

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 # 42
A company has a pair of Alletra 9000s, managed via the HPE GreenLake Data Services Cloud Console (DSCC). An administrator installed Kubernetes locally but requires persistent storage using the Alletra 9000s.
After installing the helm repo for the HPE CSI Driver for Kubernetes, what is the next step the administrator should perform to use the Alletra 9000s for persistent storage?

- A. Create a storage class that references the Alletra 9000s on the Kubernetes conductor.
- B. Create a Kubernetes namespace for the HPE CSI Driver.
- C. Add the Kubernetes conductor credentials to the Alletra 9000s in the HPE GreenLake DSCC.
- D. Create a secret to allow the HPE CSI Driver to communicate with the Alletra 9000s.

Answer: D

Explanation:
The deployment of the HPE CSI (Container Storage Interface) Driver involves several sequential steps to enable dynamic provisioning of storage on HPE Alletra 9000 arrays. Once the Helm repository has been added, the administrator must provide the driver with the necessary authentication and connectivity details for the storage backend.
According to the HPE Storage Container Orchestration Documentation (SCOD), the definitive next step to enable communication between the Kubernetes cluster and the Alletra 9000 is to create a Kubernetes Secret. This Secret contains critical parameters such as the storage array's IP address or FQDN, and the management credentials (username and password). Without this Secret, the CSI driver cannot authenticate against the Alletra 9000 REST API to perform volume creation, mounting, or snapshot operations.
While creating a StorageClass (Option C) is a required step, it follows the creation of the Secret. The StorageClass definition must specifically reference the name of the Secret to identify which storage backend should be used for a particular tier of service. Option A (creating a namespace) is often done as part of the helm install command itself (using the --create-namespace flag) and is a general administrative task rather than a storage-specific configuration step. Option D is incorrect as the Alletra 9000 does not pull credentials from the Kubernetes conductor; rather, the Kubernetes driver pushes requests to the array using the credentials stored in the Kubernetes Secret. Establishing this secure handshake via the Secret is the foundational step for all subsequent persistent volume (PV) and persistent volume claim (PVC) activities.

NEW QUESTION # 43
A customer intentionally removes all three drives from a JBOF from an HPE Alletra MP X10000 used in an HPE GreenLake for File Storage solution. What is the correct description of the result of this action?

- A. This results in a catastrophic failure with an I/O outage, as no data service is available and the system is not in RO mode.

To recover, the customer should reinsert the same three drives, which will recover the system.

- B. This results in a catastrophic failure, with an I/O outage as no data service is available and the system is not in RO mode. To recover, HPE support/engineering needs to be involved and try the recovery steps.
- C. This results in the start of a rebuild on an integrated spare drive. After the rebuild/resync of the spare is complete, the customer must contact HPE support/engineering to complete the process.
- D. This results in the start of a rebuild on an integrated spare drive. After the rebuild/resync of the spare is complete, data services will be available and I/O will continue.

Answer: B

Explanation:
The HPE Alletra MP X10000, which powers HPE GreenLake for File Storage, utilizes a disaggregated shared-everything (DASE) architecture based on VAST Data software. Unlike traditional RAID, this architecture uses highly advanced locally decodable erasure coding.
While the system is designed to be incredibly resilient-often surviving multiple concurrent drive failures across the cluster-the removal of three drives simultaneously from a single JBOF (Just a Bunch of Flash) chassis can exceed the immediate "vertical" stripe protection thresholds, especially in smaller cluster configurations. In the Alletra MP File architecture, the metadata and data are distributed with specific redundancy parameters. Intentionally pulling three drives at once is treated as a multi-point catastrophic failure rather than a standard drive wear-out event.
When such an event occurs, the system enters a "Fail-Stop" state to protect data integrity and prevent file system corruption. Because the system cannot guarantee the consistency of the data stripes or the underlying V-Trees (metadata structures), it will cease I/O services. Simply reinserting the drives (Option B) will not automatically bring the file system back online because the system likely marked those drives as "failed" or
"stale" the moment they were removed. Recovery requires HPE Level 3 Support and Engineering to perform a manual "forced mount" or metadata reconstruction process to verify that no partial writes occurred during the removal. This is a high-touch recovery scenario designed to ensure that when the data becomes available again, it is 100% consistent.

NEW QUESTION # 44
An administrator manages a group of HPE Alletra MP B10000 arrays through the DSCC console. They want to improve the available space for the storage arrays. What should the administrator change to increase the achievable space efficiency?

- A. Change the Sparing Algorithm to Default.
- B. Change the Sparing Algorithm to Minimal.
- C. Change the High Availability option to Enclosure Level.
- D. Change the High Availability option to Drive Level.

Answer: D

Explanation:
The HPE Alletra MP B10000 (Block) utilizes a disaggregated shared-everything architecture where capacity is distributed across multiple NVMe drives and enclosures. To ensure 100% data availability, the system allows administrators to define the level of resilience required via the High Availability (HA) settings.
Architecturally, there is a direct trade-off between the level of hardware resilience and the achievable space efficiency (usable capacity).
* Enclosure Level HA (Option D): This is the most resilient setting. It ensures the system can survive the total failure of an entire drive enclosure (JBOF) without losing data. To achieve this, the system must distribute parity and data stripes across different enclosures. This "vertical" redundancy requires a larger percentage of raw capacity to be reserved for parity, thereby reducing the net space efficiency.
* Drive Level HA (Option A): This setting protects against individual drive failures (similar to traditional RAID 6 or RAID-TP) but assumes the enclosure itself remains operational. Because the stripes can be optimized more densely within fewer hardware boundaries, the system requires less
"overhead" capacity to maintain the protection state.
By changing the High Availability option to Drive Level, the administrator instructs the Alletra MP software to prioritize usable capacity over enclosure-level fault tolerance. This is a common optimization for customers who have multi-enclosure systems but prefer to maximize their ROI on raw NVMe flash. It is important to note that changing this setting may require a re-striping of existing data and should be done in accordance with the customer's risk profile and SLA requirements. The sparing algorithms (Options B and C) manage how much space is set aside for automatic rebuilds, but the primary driver of bulk space efficiency in a multi- enclosure MP cluster is the HA policy selection.

NEW QUESTION # 45
A customer needs to replace its HPE Alletra 6000 storage array with either an HPE Alletra 9000 managed with GreenLake or an IBM FlashSystem solution. Which two advantages should an HPE Partner share with the customer as to why the customer should opt for the HPE storage solution? (Choose two.)

- A. AIOps for infrastructure
- B. Fractional scaling
- C. Ransomware detection
- D. Granular disaster recovery
- E. Full stack automation with hybrid cloud

Answer: A,E

Explanation:
When competing against IBM FlashSystem, HPE's primary differentiators lie in the intelligence of the management platform and the integration into the broader hybrid cloud ecosystem.
The first major advantage is AIOps for infrastructure, pioneered by HPE InfoSight. While IBM has Storage Insights, HPE InfoSight is widely considered the industry benchmark for deep-stack predictive analytics. It uses machine learning to analyze millions of sensor points across the global install base to predict and prevent up to 86% of problems before they occur. This goes beyond simple storage monitoring; it provides visibility into the "noisy neighbor" VMs and host-side issues that impact storage performance, providing a level of autonomous management that IBM's portfolio currently lacks.
The second advantage is Full stack automation with hybrid cloud. By managing the Alletra 9000 through the HPE GreenLake Data Services Cloud Console (DSCC), the customer transitions from managing a
"box" to a cloud-native operational model. This provides a unified API and a consistent management experience whether the data is on-premises or in the cloud. DSCC enables "Intent-Based Provisioning," where the user simply specifies the workload type and the cloud console automatically selects the best-suited array and volume parameters, ensuring optimal performance without manual tuning. This "Cloud Ops" model is a cornerstone of the HPE GreenLake strategy, offering a more streamlined, automated experience than the traditional management software typically associated with the IBM FlashSystem line. While IBM does offer ransomware features (Option C), HPE's focus on AIOps and hybrid cloud integration provides a more transformative operational benefit for most enterprise customers.

NEW QUESTION # 46
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