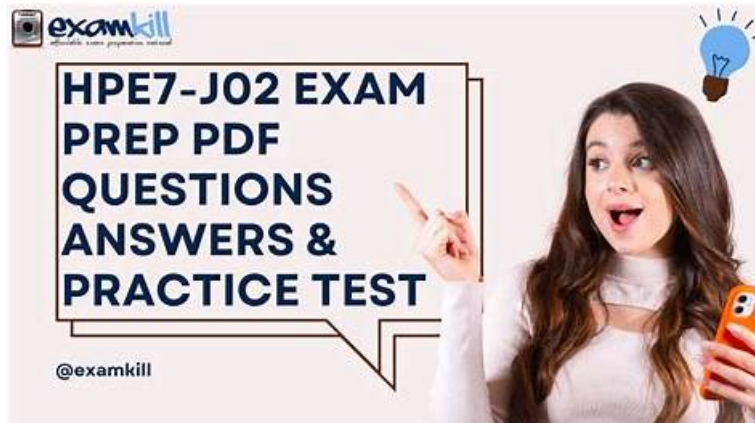


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HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58

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

Answer: D

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 # 59

What will occur when a new node is added to an existing HPE Alletra MP X10000 storage array?

- A. An automatic cluster upgrade is supported across all releases of the operating systems and models.
- **B. An automatic rebalancing across JBOFs occurs as soon as a new drive or an additional JBOF is added.**
- C. The expanded capacity is immediately available in the shared pool.
- D. Additional drives can be used to increase drive protection beyond the default limit of three drives.

Answer: B

Explanation:

The HPE Alletra MP X10000 is an object and file storage solution utilizing a Disaggregated Shared- Everything (DASE) architecture. A key differentiator of this disaggregated design is the stateless nature of the controller nodes and the centralized management of the data plane.

When a cluster expansion occurs—such as adding a new controller node or an additional JBOF (Just a Bunch of Flash) storage shelf—the system is designed to automatically optimize the workload distribution.

According to the HPE Alletra MP Architectural Guide, adding an additional JBOF or drives triggers an automatic rebalancing of the data stripes. Unlike older architectures where manual rebalancing services were required (such as in the 3PAR/B10000 block lineage), the X10000 uses a sophisticated hashing mechanism.

Specifically, data is distributed across DSPs (Data Storage Processors) which are virtualized management units. Upon the addition of hardware, these DSPs are rebalanced across the available compute and storage resources in a matter of seconds. Because the nodes are stateless and state is persisted only within the JBOFs, this rebalancing happens with minimal performance impact and no need for the massive "data movement" traditionally associated with expanding a RAID group. This ensures that as a customer scales from the minimum of 3 nodes up to 8 or more, the system always maintains an optimal load balance and utilizes all available flash bandwidth and compute cycles in parallel.

NEW QUESTION # 60

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 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.
- **C. BB credits are based on link speed and frame size.**
- D. 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.
- **E. Each user port reserves eight buffer credits when online or offline.**

Answer: C,E

NEW QUESTION # 61

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

Answer: C,D

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 E), HPE's focus on AIOps and hybrid cloud integration provides a more transformative operational benefit for most enterprise customers.

NEW QUESTION # 62

A customer has a mix of applications for VMware VMs, HPE containers, and bare metal solutions. The customer is an early adopter of containers and is already using HPE Ezmeral Runtime Enterprise. They have the following criteria:

- * The customer runs applications on VMware VMs.
- * The customer wants to run multiple workloads on bare metal, VMs, and containers.
- * The customer wants a fully managed hybrid multi-cloud environment.
- * The customer wants to integrate into DevOps toolchains for immediate productivity.

Which solution will best fit the customer's needs?

- A. HPE GreenLake for Microsoft Azure Stack HCI
- B. HPE Private Cloud Business Edition with HPE VME
- C. HPE Private Cloud Enterprise
- D. HPE GreenLake for VCF

Answer: C

Explanation:

The customer's requirements specify a need for a fully managed environment that supports a "multi-gen" IT stack, including virtual machines (VMs), containers, and bare metal servers, all while providing a cloud-like operational experience for DevOps. HPE Private Cloud Enterprise (PCE) is the only solution in the portfolio designed specifically to meet all these criteria in a single, integrated managed service.

HPE Private Cloud Enterprise provides an automated, self-service cloud experience for developers and IT operators. It natively supports the provisioning and lifecycle management of bare metal compute resources, which is a key requirement for the customer's diverse workload environment. For containers, PCE integrates with standard Kubernetes orchestration, and for virtual machines, it supports multiple hypervisors including VMware. A critical differentiator is that PCE is delivered as a managed service, meaning HPE handles the underlying infrastructure management (updates, patching, and health), allowing the customer to focus on application development and DevOps productivity.

Options A and B are focused on specific stacks (VMware Cloud Foundation and Azure Stack HCI, respectively) which do not

offer the same native, unified bare-metal management and multi-workload breadth as PCE. HPE Private Cloud Business Edition (Option C) is a self-managed solution intended for smaller-scale VM environments and does not provide the "fully managed" experience or the native bare-metal compute service required by this enterprise customer. PCE's inclusion of HPE Morpheus Enterprise software further ensures the "DevOps toolchain" integration requirement is met by providing a powerful self-service engine for infrastructure-as-code.

NEW QUESTION # 63

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