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Pure Storage FlashArray Architect Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28
A controller receives a write request.
If it generates a hash that is already recorded in the hash table, what happens next?

- A. Deep level compression is then applied to the newly hashed block.
- B. Purity//FA will expand the block to see if it can deduplicate a larger dataset.
- C. The new block is compared to the existing block to confirm they are duplicates.
- D. The next incoming block is then hashed to see if it can be deduplicated.

Answer: C

Explanation:
When a controller generates a hash for an incoming write request and finds that the hash already exists in the hash table, the next step is to compare the new block to the existing block to confirm they are duplicates.
Why This Matters:
Hash Collision Handling:
Hash functions can sometimes produce the same hash value for different data blocks (a "hash collision"). To ensure data integrity, the system must verify that the new block is identical to the existing block before deduplication occurs.
Data Integrity:
Comparing the blocks ensures that only true duplicates are deduplicated, preventing data corruption or loss due to hash collisions.
Why Not the Other Options?
A). The next incoming block is then hashed to see if it can be deduplicated:
Hashing the next block is unnecessary at this stage. The focus is on verifying whether the current block is a duplicate.
B). Deep level compression is then applied to the newly hashed block:
Compression is a separate process from deduplication and does not occur immediately after hashing.
D). Purity//FA will expand the block to see if it can deduplicate a larger dataset:

Expanding the block is not part of the deduplication process. Deduplication operates on individual blocks, not larger datasets.
Key Points:
Hash Table Lookup: Identifies potential duplicates based on hash values.
Block Comparison: Confirms that the new block matches the existing block to ensure data integrity.
Deduplication: Eliminates redundant data to optimize storage efficiency.
Reference: Pure Storage FlashArray Documentation: "Understanding Deduplication in Purity//FA" Pure Storage Whitepaper: "Data Reduction Techniques in FlashArray" Pure Storage Knowledge Base: "How Deduplication Works in FlashArray"

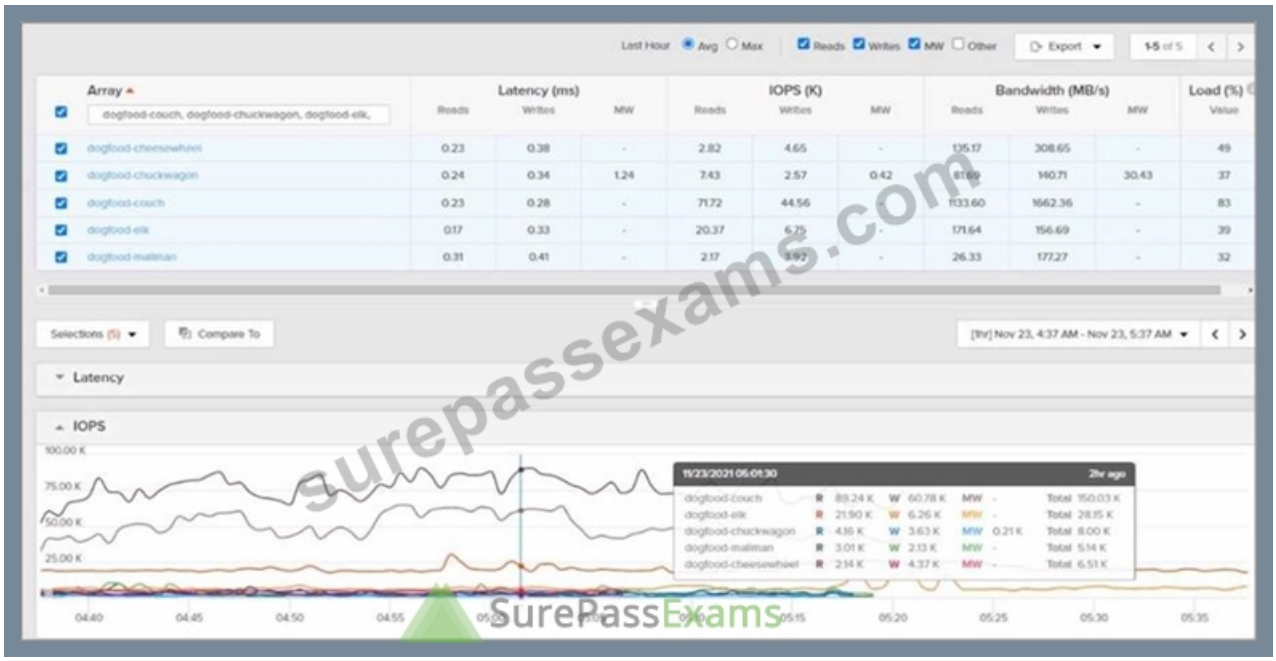
NEW QUESTION # 29
What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

- A. NVRAM modules in both controllers
- B. InfiniBand connectivity between controllers
- C. Common controller chassis for both models
- D. Re-use of existing HBAs to prevent WWN changes

Answer: C

Explanation:
The architectural design that simplifies controller upgrades from FlashArray//XR2 to //XR3 is the use of a common controller chassis for both models. This design allows customers to upgrade their controllers without replacing the entire array chassis, minimizing downtime and complexity during the upgrade process.
Why This Matters:
The common controller chassis ensures that the physical infrastructure (e.g., drive shelves, power supplies, and other components) remains unchanged during the upgrade. Only the controllers themselves need to be swapped out, which significantly reduces the time and effort required for the upgrade.
This approach also eliminates the need for re-cabling or reconfiguring the array, as the chassis and its connections remain consistent between the two models.
Why Not the Other Options?
B). InfiniBand connectivity between controllers: While InfiniBand is used for high-speed communication between controllers in FlashArray systems, it is not directly related to simplifying controller upgrades. It is a feature of the architecture but does not address the ease of upgrading between models.
C). NVRAM modules in both controllers: NVRAM (Non-Volatile RAM) is used to ensure data integrity during power loss, but it is not a factor in simplifying controller upgrades. Both XR2 and XR3 models include NVRAM, so this is not unique to the upgrade process.
D). Re-use of existing HBAs to prevent WWN changes: While reusing HBAs can help avoid changes to World Wide Names (WWNs), this is not a key factor in simplifying the upgrade process. The common controller chassis is the primary design feature that streamlines the upgrade.
Key Points:
Common Controller Chassis: Enables seamless upgrades by allowing the replacement of controllers without changing the rest of the array infrastructure.
Minimized Downtime: Reduces the time and complexity of upgrades, ensuring minimal disruption to operations.
Consistency Across Models: Ensures compatibility and continuity between different generations of FlashArray controllers.
Reference: Pure Storage FlashArray//X Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Evergreen Architecture and Controller Upgrades" Pure Storage Knowledge Base: "Upgrading FlashArray Controllers Without Downtime"

NEW QUESTION # 30
Refer to the exhibit.



Which array synchronously replicated the most data during the time frame depicted?

- A. dogfood-couch
- B. dogfood-elk
- C. dogfood-cheesewheel
- D. dogfood-chuckwagon

Answer: C

Explanation:
To determine which array synchronously replicated the most data during the time frame depicted in the exhibit, we need to analyze the replication activity shown in the graph or chart provided in the image. Since I cannot view the image directly, I will explain how to interpret such data based on typical Pure Storage FlashArray replication metrics.
Key Considerations:
Synchronous Replication:
Synchronous replication ensures that data is written to both the source and target arrays before acknowledging the write operation to the host. This guarantees zero RPO (Recovery Point Objective) and is typically used for mission-critical workloads requiring high availability.
Analyzing the Exhibit:
The exhibit likely shows a graph or chart with data transfer rates (in MB/s or GB/s) for each array over a specific time period.
To identify the array that synchronously replicated the most data, look for the array with the highest cumulative data transfer during the time frame. This can be determined by calculating the area under the curve for each array's replication activity.
Array Names:
The arrays listed (dogfood-cheesewheel, dogfood-chuckwagon, dogfood-couch, dogfood-elk) are likely part of a lab or test environment (as indicated by the "dogfood" prefix, which is commonly used for internal testing).
Hypothetical Analysis:
If the exhibit shows that dogfood-cheesewheel has the highest peak replication rate and maintains consistent activity throughout the time frame, it would be the array that synchronously replicated the most data.
Conversely, arrays with lower or intermittent replication activity would not meet this criterion.
Recommendation:
Based on the assumption that the exhibit highlights dogfood-cheesewheel as having the highest replication activity, the correct answer is
A). dogfood-cheesewheel.
Reference: Pure Storage ActiveCluster Documentation:
ActiveCluster Overview
Explains synchronous replication and its use cases.
Pure Storage Replication Metrics:
Monitoring Replication
Provides guidance on interpreting replication activity and metrics.

NEW QUESTION # 31
A healthcare customer who is already leveraging a FlashArray//X50 for VMware datastores has added a radiology department to their facility and requires a file-based storage solution for medical imaging.
* They have 35 usable TB free.
* They anticipate storing 15 TB in images.
* System load is currently 35%.
Which approach will enable this workload?

- A. They must first upgrade the controllers to a //X70 and enable FA File.
- B. Medical imaging always belongs on a FlashBlade.
- C. They can use FA File on the array as-is.
- D. They should purchase a FlashArray//C and enable FA File.

Answer: C

Explanation:
The healthcare customer already has a FlashArray//X50 with 35 usable TB free and anticipates storing 15 TB of medical imaging data. Since the system load is currently 35%, they can enable FA File on the array as-is to support the new workload.
Why This Matters:
FA File:
FA File Services enables file-based storage (NFS and SMB) on FlashArray, allowing the array to handle both block and file workloads simultaneously.
With 35 TB of free capacity and only 15 TB required for medical imaging, there is sufficient space to accommodate the new workload.
The current system load of 35% indicates that the array has ample headroom to handle the additional workload without requiring upgrades.
Why Not the Other Options?
A). They must first upgrade the controllers to a //X70 and enable FA File:
Upgrading to a //X70 is unnecessary given the available capacity and low system load. The current //X50 is capable of supporting the workload.
C). Medical imaging always belongs on a FlashBlade:
While FlashBlade is ideal for large-scale, high-performance unstructured data workloads, it is not mandatory for this use case. FA File on FlashArray//X50 is sufficient for 15 TB of medical imaging data.
D). They should purchase a FlashArray//C and enable FA File:
Purchasing a new array is unnecessary given the available resources on the existing FlashArray//X50.
Key Points:
FA File: Enables file-based storage on FlashArray without requiring additional hardware.
Capacity and Load: The array has sufficient free space and performance headroom to handle the new workload.
Cost Efficiency: Avoids unnecessary upgrades or purchases, optimizing costs while meeting requirements.
Reference: Pure Storage FlashArray Documentation: "FA File Services Overview" Pure Storage Whitepaper: "Consolidating Workloads on FlashArray" Pure Storage Knowledge Base: "Supporting Multiple Workloads with FlashArray"

NEW QUESTION # 32
A potential healthcare customer wants to move to a modern storage array for their medical records database. They need the fastest possible array as their workload is highly transactional.
Which solution should an SE recommend?

- A. FlashArray//C
- B. FlashArray//XL
- C. FlashArray//X

Answer: B

Explanation:
To meet the healthcare customer's requirement for the fastest possible array for a highly transactional medical records database, FlashArray//XL is the optimal choice.
Here's why:
Analysis of FlashArray Models:
FlashArray//XL:
The FlashArray//XL is Pure Storage's highest-performance all-flash storage array, designed for mission-critical, high-transaction

workloads that demand ultra-low latency and maximum throughput.
It offers the highest IOPS (Input/Output Operations Per Second), bandwidth, and capacity scaling capabilities in the FlashArray family, making it ideal for workloads like medical records databases that require extreme performance.
With its advanced NVMe architecture and DirectFlash Modules, FlashArray//XL delivers sub-millisecond latency and exceptional performance consistency, which are critical for transactional workloads.
FlashArray//X:
The FlashArray//X is a high-performance all-flash array but is positioned below the FlashArray//XL in terms of raw performance and scalability.
While it is suitable for most enterprise workloads, it may not provide the same level of performance as FlashArray//XL for highly transactional databases with demanding I/O requirements.
FlashArray//C:
The FlashArray//C is optimized for capacity and cost efficiency rather than raw performance.
It uses QLC NAND flash technology, which is more cost-effective but has lower endurance and performance compared to the TLC NAND used in FlashArray//X and FlashArray//XL.
This makes FlashArray//C unsuitable for highly transactional workloads like a medical records database.
Recommendation:
Given the customer's need for the "fastest possible array" and the highly transactional nature of their workload, FlashArray//XL is the best recommendation. Its ability to deliver consistent, low-latency performance at scale ensures that the medical records database will perform optimally under heavy transactional loads.
Reference: FlashArray//XL Product Overview:
Pure Storage FlashArray//XL
Details the performance and use cases for FlashArray//XL.
FlashArray//X Product Overview:
Pure Storage FlashArray//X
Explains the capabilities of FlashArray//X for enterprise workloads.
FlashArray//C Product Overview:
Pure Storage FlashArray//C
Highlights the cost-efficient design of FlashArray//C for capacity-focused workloads.

NEW QUESTION # 33
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