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Pure Storage FlashArray Architect Associate Sample Questions (Q52-Q57):

NEW QUESTION # 52
A customer wants to add capacity to support a new Oracle workload. It has been determined that the application needs 398 TB of thick-provisioned storage from the host. The customer wants to purchase the minimum storage capacity to handle this workload. How much capacity should the SE propose, assuming DRR is 3:1?

- A. 62 TB
- B. 132 TB
- C. 186 TB
- D. 21TB

Answer: B

Explanation:

To calculate the minimum storage capacity required to handle the Oracle workload, we need to account for the thick-provisioned storage requirement and the expected data reduction ratio (DRR).

Step-by-Step Calculation:

Logical Storage Requirement:

The application requires 398 TB of thick-provisioned storage from the host.

Data Reduction Ratio (DRR):

The DRR is 3:1, meaning the physical storage required is:

Recommendation:

The SE should propose 132 TB of physical storage, as it meets the requirement after accounting for data reduction.

Final Recommendation:

The correct answer is

A). 132 TB.

Reference: Capacity Planning Guide:

Pure Storage Capacity Planning

Provides guidance on calculating usable capacity based on data reduction ratios.

Thick vs. Thin Provisioning:

Provisioning Best Practices

Explains the differences between thick and thin provisioning.

NEW QUESTION # 53

A customer is unsatisfied because the level of data reduction on their FlashArray is NOT as high as expected.

What two statements should the SE make to the customer? (Choose two.)

- A. FlashArray's deduplication effectiveness will usually increase as the data quantity grows.
- B. FlashArray data reduction needs to be tuned to increase its effectiveness.
- C. The Right-Size Guarantee means that the customer can work with their SE if necessary.
- D. A FlashArray's compression and deduplication will need to be tuned for data subsets.

Answer: A,C

Explanation:

If a customer is unsatisfied with the level of data reduction on their FlashArray, the SE should make the following two statements:

FlashArray's deduplication effectiveness will usually increase as the data quantity grows:

Deduplication relies on identifying and eliminating duplicate data blocks. As more data is written to the array, the likelihood of finding duplicates increases, improving the overall deduplication ratio.

Customers should expect better data reduction results over time as their dataset grows.

The Right-Size Guarantee means that the customer can work with their SE if necessary:

Pure Storage's Right-Size Guarantee ensures that customers receive the expected effective capacity based on their workload's data reduction profile. If the actual data reduction does not meet expectations, the customer can collaborate with their SE to address the issue and potentially adjust their subscription or configuration.

Why Not the Other Options?

A). A FlashArray's compression and deduplication will need to be tuned for data subsets:

FlashArray's data reduction techniques (compression and deduplication) are automatic and do not require manual tuning. This statement is misleading.

C). FlashArray data reduction needs to be tuned to increase its effectiveness:

Similar to Option A, FlashArray's data reduction mechanisms are fully automated and do not require manual intervention.

Key Points:

Data Growth: Deduplication effectiveness improves as more data is written to the array.

Right-Size Guarantee: Provides assurance that customers can work with their SE to address data reduction concerns.
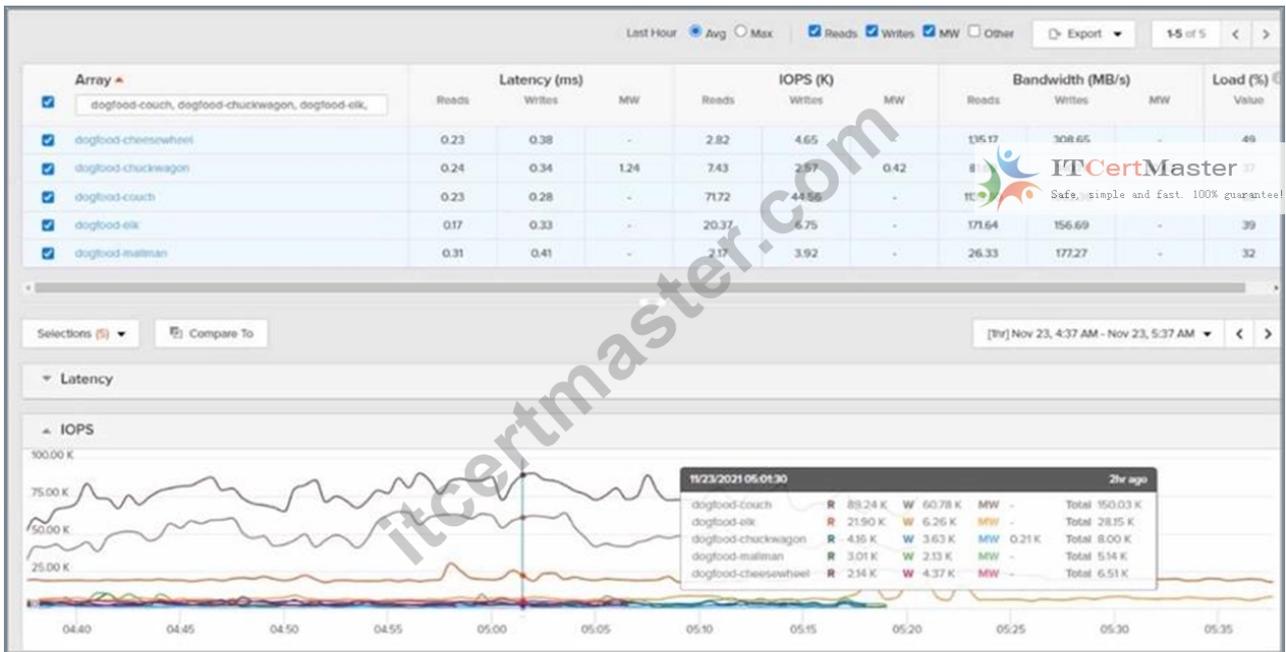
Automatic Optimization: FlashArray's data reduction features are self-optimizing and do not require manual tuning.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction and Capacity Planning" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

NEW QUESTION # 54

Refer to the exhibit.

Array ▲	Latency (ms)			IOPS (K)			Bandwidth (MB/s)			Load (%)
dogfood-couch, dogfood-chuckwagon, dogfood-elk,	Reads	Writes	MW	Reads	Writes	MW	Reads	Writes	MW	Value
dogfood-cheesewheel	0.23	0.38	-	2.82	4.65	-	135.17	308.65	-	49
dogfood-chuckwagon	0.24	0.34	1.24	7.43	2.57	0.42	8			
dogfood-couch	0.23	0.28	-	71.72	44.58	-	11			
dogfood-elk	0.17	0.33	-	20.37	6.75	-	171.64	156.69	-	39
dogfood-mailman	0.31	0.41	-	2.17	3.92	-	26.33	177.27	-	32

Selections (5) ▾   ⧉ Compare To   [1hr] Nov 23, 4:37 AM - Nov 23, 5:37 AM ▾ ‹ ›

▾ Latency

▴ IOPS

100.00 K
75.00 K
50.00 K
25.00 K

11/23/2021 05:01:30				2hr ago
dogfood-couch	R 89.24 K	W 60.78 K	MW -	Total 150.03 K
dogfood-elk	R 21.90 K	W 6.26 K	MW -	Total 28.15 K
dogfood-chuckwagon	R 4.16 K	W 3.63 K	MW 0.21 K	Total 8.00 K
dogfood-mailman	R 3.01 K	W 2.13 K	MW -	Total 5.14 K
dogfood-cheesewheel	R 2.14 K	W 4.37 K	MW -	Total 6.51 K

04:40   04:45   04:50   04:55   05:00   05:05   05:10   05:15   05:20   05:25   05:30   05:35

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

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

Answer: D

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 # 55

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 # 56

A manufacturing customer is running Oracle volumes on their existing //X90R3 array and would like to use FlashArray for their Windows file shares. They are asking if it is feasible to do this.

How should the SE respond?

- A. The customer needs to upgrade to XL to be able to use FA File.
- B. The customer should migrate their Windows file servers to Pure.
- C. The customer should be able to use their current FlashArray.

Answer: C

Explanation:

The SE should respond that the customer can use their current FlashArray for Windows file shares alongside their existing Oracle workloads. Pure Storage FlashArray is a versatile platform capable of supporting multiple workloads, including block storage for databases (e.g., Oracle) and file services for Windows file shares.

Why This Matters:

FlashArray Versatility:

Pure Storage FlashArray supports both block and file workloads through its integrated architecture. While FlashArray is primarily known for block storage, it can also support file workloads using FA File Services, which provides NFS and SMB protocols for file sharing.

The customer does not need to migrate their Windows file servers or upgrade their hardware unless there are specific capacity or performance constraints.

Current Array Feasibility:

Assuming the existing //X90R3 array has sufficient capacity and performance headroom, it can handle the additional workload without requiring upgrades.

Why Not the Other Options?

A). The customer should migrate their Windows file servers to Pure:
While migrating file servers to Pure Storage can provide benefits like simplified management and improved performance, it is not a requirement. The customer can continue using their existing file servers while leveraging FlashArray for block storage.
B). The customer needs to upgrade to XL to be able to use FA File:
Upgrading to a higher-end model like FlashArray//XL is unnecessary unless the current array lacks the required capacity or performance for the additional workload. The //X90R3 is fully capable of supporting FA File Services.
Key Points:
Versatility: FlashArray can support both block and file workloads simultaneously.
No Immediate Upgrades Needed: The current array can likely handle the additional workload without requiring hardware changes.
Workload Consolidation: Using a single platform for multiple workloads simplifies infrastructure and reduces costs.
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 # 57

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