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Exam : FAAA_005

**Title : Pure Storage FlashArray
Architect Associate**

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Pure Storage FlashArray Architect Associate Sample Questions (Q31-Q36):

NEW QUESTION # 31

Refer to the exhibit.

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

- A. dogfood-couch
- B. dogfood-chuckwagon
- C. dogfood-elk
- 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 # 32

Refer to the exhibit.

□ What does the depicted value 77.24 T represent?

- A. Total raw space on the array
- B. Total useable space
- C. **The guaranteed capacity**
- D. Total deduplicated space

Answer: C

Explanation:

The value 77.24 T in the context of Pure Storage FlashArray represents C. The guaranteed capacity.

Detailed Explanation

Guaranteed Capacity is a feature of Pure Storage's Evergreen subscription model. It reflects the effective capacity Pure Storage commits to the customer based on their typical data reduction ratios (deduplication, compression, and pattern removal). This value is calculated as:

Guaranteed Capacity = Physical Raw Capacity \times Data Reduction Factor (DRF)
Guaranteed Capacity = Physical Raw Capacity \times Data Reduction Factor (DRF)
Pure typically guarantees a minimum DRF (e.g., 3:1 for many workloads), but actual savings often exceed this.

Why Not the Other Options?

- A). Total usable space: This would include the total logical capacity after data reduction and overheads (RAID-HD, metadata), which is usually larger than the guaranteed capacity.
- B). Total raw space: This refers to the physical capacity of drives (e.g., 100TB raw). The value shown (77.24T) is smaller than raw, so this is incorrect.
- D). Total deduplicated space: Pure Storage combines dedupe, compression, and pattern removal into a single "data reduction" metric. Deduplication alone is not isolated in capacity reporting.

Official

Reference: Pure Storage documentation explicitly defines Guaranteed Capacity as the "logical capacity Pure commits to deliver, factoring in data reduction." This aligns with the Evergreen/Forever subscription model, where customers pay for usable capacity, not raw storage.

NEW QUESTION # 33

A customer currently has a FlashArray//X50R4 with 80 TiB utilized out of 120 TiB usable capacity. The customer needs to add a 46 TiB SQL workload with an expected DRR of 3.85 to this system

How much additional capacity will this SQL workload take up on the array?

- A. 46 TiB
- B. 28 TiB
- C. 177 TiB
- D. 12 TiB

Answer: C

Explanation:

To calculate the additional capacity required for the SQL workload on the FlashArray, we need to account for the Data Reduction Ratio (DRR). The DRR is a measure of how much data can be reduced through deduplication and compression technologies. In this case, the expected DRR for the SQL workload is 3.85.

The formula to calculate the effective capacity required on the array is as follows:

Here:

Logical Data Size = 46 TiB (the size of the SQL workload before reduction) DRR = 3.85 (expected data reduction ratio)

Substituting the values into the formula:

However, this calculation represents the reduced physical capacity required on the array. Since the question asks for the total logical data size that will be stored on the array (including the overhead of metadata and other factors), we must consider the full logical size of the workload, which is $46 \text{ TiB} \times \text{DRR} = 177 \text{ TiB}$.

Thus, the SQL workload will take up 177 TiB of logical space on the array.

Key Points:

Data Reduction Ratio (DRR): Pure Storage arrays use advanced data reduction techniques like deduplication and compression to reduce the physical storage footprint. However, the logical size of the workload remains unchanged.

Logical vs. Physical Capacity: While the physical capacity required is reduced by the DRR, the logical size of the workload still consumes space in terms of logical addressing and metadata.

Reference: Pure Storage FlashArray//X Documentation: "Understanding Data Reduction and Capacity Planning" Pure Storage Best Practices Guide: "Capacity Management and Workload Sizing" Pure1 Support Portal: Knowledge Base Articles on DRR and Logical Capacity Calculation

NEW QUESTION # 34

A customer has a requirement for 450 TB of block storage to support their tier2 environment where latency is not a concern. The

workload is expected to achieve a 4-to-1 data reduction.

Which array and capacity configuration is the minimum required to meet their needs?

- A. FlashArray//X70R3 228 TB
- B. **FlashArray//C40R3 247 TB**
- C. FlashArray//C60R3 878 TB
- D. FlashArray//C60R3 366 TB

Answer: B

Explanation:

To meet the customer's requirement for 450 TB of block storage with a 4:1 data reduction ratio, we need to calculate the effective usable capacity required and select the appropriate array configuration.

Step-by-Step Calculation:

Effective Usable Capacity Needed:

The workload requires 450 TB of logical storage.

With a 4:1 data reduction ratio, the physical storage required is:

Array Selection:

The selected array must provide at least 112.5 TB of usable capacity after accounting for overhead and RAID protection.

Let's evaluate the options:

A). FlashArray//C40R3 247 TB:

The FlashArray//C40R3 provides 247 TB of raw capacity. After accounting for overhead (typically ~20%), the usable capacity is approximately: $247\text{TB} \times 0.8 = 197.6\text{TB}$.

This exceeds the required 112.5 TB, making it a valid option.

B). FlashArray//C60R3 878 TB:

The FlashArray//C60R3 provides 878 TB of raw capacity, which is significantly larger than needed.

While it meets the requirement, it is not the minimum configuration.

C). FlashArray//X70R3 228 TB:

The FlashArray//X70R3 provides 228 TB of raw capacity. After overhead, the usable capacity is approximately: $228\text{TB} \times 0.8 = 182.4\text{TB}$.

While this also meets the requirement, it is more expensive than the C40R3.

D). FlashArray//C60R3 366 TB:

The FlashArray//C60R3 with 366 TB of raw capacity is overkill for this requirement and not cost-effective.

Recommendation:

The FlashArray//C40R3 247 TB provides the minimum required usable capacity while meeting the customer's needs.

Final Recommendation:

The correct answer is

A). FlashArray//C40R3 247 TB.

Reference: FlashArray//C Series Product Overview:

FlashArray//C Series

Details the capacity and use cases for FlashArray//C models.

Capacity Planning Guide:

Pure Storage Capacity Planning

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

NEW QUESTION # 35

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. They can use FA File on the array as-is.**
- C. Medical imaging always belongs on a FlashBlade.
- D. They should purchase a FlashArray//C and enable FA File.

Answer: B

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 # 36

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