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### Pure Storage FlashArray Architect Associate Sample Questions (Q18-Q23):

#### NEW QUESTION # 18

What is the minimally required FlashArray model that includes the DirectCompress Accelerator (DCA)?

- A. FlashArray//XL130
- B. FlashArray//X70 R3
- C. FlashArray//X70 R4
- D. FlashArray//X90 R4

**Answer: C**

Explanation:

The DirectCompress Accelerator (DCA) is a hardware component introduced in certain FlashArray models to enhance inline data compression performance. To determine the minimally required FlashArray model that includes DCA, let's analyze the options:

Analysis of Options:

A). FlashArray//X70 R4:

The FlashArray//X70 R4 was the first model to include the DirectCompress Accelerator (DCA). This makes it the minimally required model for DCA support.

B). FlashArray//X70 R3:

The FlashArray//X70 R3 does not include the DCA. It relies on software-based compression, which is less efficient than hardware-accelerated compression.

C). FlashArray//X90 R4:

The FlashArray//X90 R4 includes DCA but is a higher-tier model than the X70 R4. While it supports DCA, it is not the minimal requirement.

D). FlashArray//XL130:

The FlashArray//XL130 is a high-performance model that includes DCA, but it is overkill for this requirement and not the minimal model.

Recommendation:

The correct answer is

A). FlashArray//X70 R4, as it is the first model to include the DirectCompress Accelerator (DCA).

Reference: FlashArray Hardware Specifications:

FlashArray Models

Details the features and capabilities of each FlashArray model.

DirectCompress Accelerator Overview:

DirectCompress Accelerator

Explains the benefits and availability of DCA.

#### NEW QUESTION # 19

A customer needs to be able to replicate from on-prem into the public cloud. They want to use the cloud as their DR site with failover and fallback capabilities.

Which Pure Storage feature should the customer use?

- A. ActiveCluster FC replication between a FlashArray on site and Evergreen//One
- B. Purity//FA CloudSnap periodic offload of snapshots to AWS
- C. Snapshot replication to replicate between a FlashArray on site and Cloud Block Store

**Answer: C**

Explanation:

The customer requires a disaster recovery (DR) solution that allows them to replicate data from their on-premises environment to the public cloud. They also need failover and fallback capabilities, meaning they must be able to switch operations to the cloud during a disaster and revert back to on-premises once the issue is resolved.

Snapshot replication between a FlashArray on-premises and Cloud Block Store (CBS) is the best solution for this use case. CBS integrates seamlessly with on-premises FlashArrays, enabling efficient replication of snapshots to the cloud. This feature supports failover and fallback operations, ensuring business continuity in the event of a disaster.

Why Not the Other Options?

B). Purity//FA CloudSnap periodic offload of snapshots to AWS: While CloudSnap allows periodic offloading of snapshots to AWS S3 for backup purposes, it does not provide the real-time replication and failover/fallback capabilities required for DR.

C). ActiveCluster FC replication between a FlashArray on site and Evergreen//One: ActiveCluster is designed for synchronous replication between two FlashArrays in different locations, but it does not support replication to the public cloud.

Key Points:

Snapshot Replication: Enables efficient and reliable replication of data between on-premises FlashArrays and Cloud Block Store.

Failover and Fallback: CBS supports these capabilities, ensuring minimal downtime during a disaster.

Integration with FlashArray: CBS is specifically designed to work with FlashArray, providing a seamless DR solution.

Reference: Pure Storage Cloud Block Store Documentation: "Disaster Recovery with Cloud Block Store" Pure Storage Best Practices Guide: "Replication and Failover in Hybrid Cloud Environments" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store"

## NEW QUESTION # 20

A customer notices a low data reduction ratio upon initial data ingest.

Which Purity data reduction technique will help increase the data reduction ratio over time?

- A. Capacity consolidation and cloning
- **B. Deep deduplication and deep compression**
- C. Snapshot cleanup and garbage collection
- D. RAID-HA protection and AES-256 encryption

**Answer: B**

Explanation:

If a customer notices a low data reduction ratio upon initial data ingest, the Purity data reduction technique that will help increase the data reduction ratio over time is deep deduplication and deep compression.

Why This Matters:

Deep Deduplication and Deep Compression:

Purity//FA (the operating system for FlashArray) applies deduplication to eliminate duplicate data blocks and compression to reduce the size of unique data blocks.

These techniques are applied continuously as new data is written to the array. Over time, as more data is ingested and patterns emerge, the effectiveness of deduplication and compression increases, leading to a higher data reduction ratio.

For example, deduplication becomes more effective as the dataset grows and more duplicates are identified. Similarly, compression benefits from identifying repetitive patterns in larger datasets.

Why Not the Other Options?

B). Snapshot cleanup and garbage collection:

Snapshot cleanup and garbage collection are maintenance processes that reclaim space from deleted snapshots or unused data blocks. While these processes free up space, they do not directly contribute to increasing the data reduction ratio.

C). Capacity consolidation and cloning:

Capacity consolidation refers to combining workloads onto fewer arrays, and cloning creates space-efficient copies of volumes.

While cloning leverages data reduction techniques, it does not inherently improve the overall data reduction ratio for existing data.

D). RAID-HA protection and AES-256 encryption:

RAID-HA (high availability) ensures data redundancy, and AES-256 encryption secures data. Neither of these features impacts the data reduction ratio.

Key Points:

Deep Deduplication and Compression: Continuously optimize storage efficiency as more data is ingested.

Data Reduction Ratio: Improves over time as deduplication identifies duplicates and compression reduces unique data.

Purity//FA Automation: These techniques are fully automated and do not require manual intervention.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction in Purity//FA" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "How Deduplication and Compression Work in FlashArray"

## NEW QUESTION # 21

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 # 22

Refer to the exhibit.

What does the depicted value 77.24 T represent?

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

**Answer: A**

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×Data Reduction Factor (DRF) Guaranteed Capacity=Physical Raw Capacity×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 # 23

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