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## Pure Storage FlashArray Architect Associate Sample Questions (Q17-Q22):

### NEW QUESTION # 17

Refer to the exhibit.



Which FlashArray controller(s) does the exhibit show?

- A. Top: Primary, Bottom: Secondary
- **B. Top: CT1, Bottom: CT2**
- C. Top: CTO, Bottom: CT1

**Answer: B**

Explanation:

Exhibit controllers of a Pure Storage FlashArray, specifically labeled as CT1 (top) and CT2 (bottom).

This labeling is consistent with Pure Storage's naming convention for its controllers.

Why This Matters:

Controller Identification:

Pure Storage FlashArray controllers are typically labeled as CT1 and CT2 to distinguish between the two controllers in an active/active architecture.

Both controllers work together to provide high availability and redundancy, ensuring seamless operation even if one controller is offline for maintenance or upgrades.

Active/Active Architecture:

In an active/active design, both controllers share the workload equally. If one controller is taken offline, the other seamlessly handles all I/O operations without impacting performance or availability.

Why Not the Other Options?

B). Top: Primary, Bottom: Secondary:

Pure Storage does not use "Primary" and "Secondary" labels for its controllers. Instead, it uses specific identifiers like CT1 and CT2 to refer to the controllers.

C). Top: CTO, Bottom: CT1:

The label "CTO" is not a valid designation for FlashArray controllers. Pure Storage consistently uses CT1 and CT2 to identify the controllers.

Key Points:

Controller Labels: Pure Storage FlashArray controllers are labeled as CT1 and CT2.

Active/Active Design: Both controllers operate simultaneously to ensure high availability and performance.

Redundancy: The dual-controller architecture provides fault tolerance and minimizes downtime during maintenance or failures.

Reference: Pure Storage FlashArray Documentation: "Understanding FlashArray Controller Architecture" Pure Storage Knowledge Base: "Identifying FlashArray Controllers" Pure Storage Whitepaper: "Active/Active Controller Design for High Availability"

### NEW QUESTION # 18

A company has two data centers that are 30 miles apart with a round trip latency of 4ms.

What Pure Storage software will allow the lowest RPO disaster recovery strategy between the two data centers?

- A. Purity Snapshots
- **B. Purity Snapshot Replication**
- C. Purity ActiveCluster
- D. Pure1 Manage

**Answer: B**

Explanation:

To achieve the lowest RPO (Recovery Point Objective) disaster recovery strategy between two data centers located 30 miles apart with a round-trip latency of 4ms, Purity Snapshot Replication is the best choice.

Here's why:

Analysis of Options:

A). Purity Snapshot Replication:

Snapshot Replication is an asynchronous replication method that periodically replicates snapshots of volumes to a remote FlashArray.

With a round-trip latency of 4ms, Snapshot Replication can achieve very low RPOs (typically seconds to minutes), making it suitable for disaster recovery in this scenario.

B). Purity ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two arrays.

While ActiveCluster offers zero RPO and zero RTO, it is typically limited to shorter distances due to latency constraints. At 30 miles and 4ms latency, ActiveCluster may still work but is less optimal compared to Snapshot Replication for disaster recovery.

C). Pure1 Manage:

Pure1 Manage is a cloud-based monitoring and management platform for Pure Storage arrays. It does not provide replication or disaster recovery capabilities.

D). Purity Snapshots:

Snapshots are point-in-time copies of data stored locally on the FlashArray. They do not provide replication to a remote site and are therefore unsuitable for disaster recovery.

Recommendation:

The correct answer is

A). Purity Snapshot Replication, as it provides the lowest RPO for disaster recovery over a 30-mile distance with 4ms latency.

Reference: Purity Snapshot Replication Documentation:

Purity Snapshot Replication

Explains how Snapshot Replication works and its use cases.

Purity ActiveCluster Documentation:

Purity ActiveCluster

Details the capabilities and limitations of ActiveCluster.

## NEW QUESTION # 19

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

**Answer: B,D**

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 # 20

A customer running FlashArray//X70R3 in production just purchased a FlashArray//C60R3 Array for a secondary site. The customer wants to have the lowest RPO (Recovery Point Objective) possible for the data. Which FlashArray feature will meet the requirements?

- **A. ActiveDR**
- B. ActiveCluster
- C. Async Replication

**Answer: A**

Explanation:

The customer wants to achieve the lowest RPO (Recovery Point Objective) possible for their data when replicating between a FlashArray//X70R3 in production and a FlashArray//C60R3 at a secondary site. The best feature to meet this requirement is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides low RPOs, typically in the range of seconds to minutes, depending on network conditions and workload characteristics.

While it is asynchronous, ActiveDR achieves much lower RPOs compared to traditional async replication methods like snapshot replication.

It also supports fast failover and failback, ensuring minimal downtime during a disaster recovery event.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster provides synchronous replication with zero RPO and near-zero RTO. However, it requires both sites to be within a low-latency range (typically <10 ms). Since the customer has not specified that the secondary site is within synchronous distance, ActiveCluster is not feasible in this scenario.

C). Async Replication:

Traditional asynchronous replication (e.g., snapshot replication) typically results in higher RPOs compared to ActiveDR. It does not provide the same level of optimization for low RPOs as ActiveDR.

Key Points:

ActiveDR: Provides the lowest RPO possible for asynchronous replication, making it ideal for geographically distant secondary sites.

Network Latency: ActiveDR is designed to work efficiently over longer distances and higher latencies compared to synchronous solutions like ActiveCluster.

Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.

Reference: Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

### NEW QUESTION # 21

What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

- A. Upgrade Purity//FA code
- **B. Physically relocating an array**
- C. Replacing a controller 10 module
- D. Moving from a SAS- to NVMe-based shelf

**Answer: B**

Explanation:

Among the listed options, physically relocating an array is the action most likely to cause a disruption to Pure FlashArray stateless controller operations or performance.

Why This Matters:

Physical Relocation:

Moving a FlashArray involves powering down the system, disconnecting cables, and transporting the hardware to a new location. This process inherently disrupts operations and performance until the array is reinstalled and brought back online. Even with proper planning, physical relocation introduces downtime and potential risks (e.g., hardware damage during transport). Why Not the Other Options?

A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.

C). Moving from a SAS- to NVMe-based shelf:

Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.

D). Upgrade Purity//FA code:

Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.

Key Points:

Physical Relocation: Causes unavoidable downtime and operational disruption.

Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.

Planning Required: Physical relocation requires careful planning to minimize risks and downtime.

Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

## NEW QUESTION # 22

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