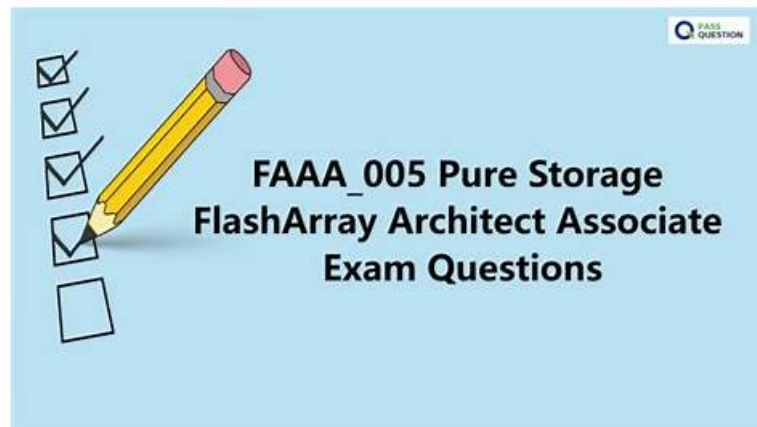


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## 2026 FAAA\_005: High Hit-Rate Exam Pure Storage FlashArray Architect Associate Voucher

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## Pure Storage FlashArray Architect Associate Sample Questions (Q43-Q48):

### NEW QUESTION # 43

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

Answer: D

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: Usable Capacity =  $247\text{TB} \times 0.8 = 197.6\text{TB}$ .

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: Usable Capacity =  $228\text{TB} \times 0.8 = 182.4\text{TB}$ .

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 # 44

During a controller upgrade of a Pure Storage FlashArray, what aspect of array design ensures there will be no tangible impact on performance?

- A. Active/active controller architecture
- B. Active/passive controller front-ends ports
- C. Primary/secondary controller architecture
- D. Stateful controller architecture

**Answer: A**

Explanation:

During a controller upgrade of a Pure Storage FlashArray, the active/active controller architecture ensures there will be no tangible impact on performance. This design allows both controllers to handle I/O operations simultaneously, so even if one controller is being upgraded, the other can continue processing workloads without interruption.

Why This Matters:

Active/Active Architecture: In an active/active design, both controllers share the workload equally. If one controller is taken offline for maintenance or upgrades, the remaining controller seamlessly handles all I/O operations.

This ensures continuous availability and consistent performance during upgrades, minimizing downtime and user impact.

Why Not the Other Options?

B). Stateful controller architecture:

While stateful architectures maintain session information, they do not inherently ensure no performance impact during upgrades. The key factor here is the active/active design.

C). Active/passive controller front-end ports:

In an active/passive design, only one controller is actively handling I/O at any given time. If the active controller is upgraded, the

passive controller must take over, which can lead to temporary performance degradation.

D). Primary/secondary controller architecture:

Similar to active/passive, this design relies on a primary controller for all operations, making it less resilient during upgrades compared to active/active.

Key Points:

Active/Active Design: Ensures continuous I/O processing during upgrades.

Seamless Upgrades: Minimizes performance impact and downtime for users.

High Availability: Maintains consistent performance and reliability throughout the upgrade process.

Reference: Pure Storage FlashArray Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Active/Active Controller Architecture" Pure Storage Knowledge Base: "Minimizing Impact During Controller Upgrades"

#### NEW QUESTION # 45

How does Pure Storage help customers increase storage density in their arrays, as new technology becomes available, without rebuying existing storage?

- A. Customers can attach third-party storage arrays to the Pure Storage array.
- **B. Customers can add a shelf with a Evergreen/One subscription.**
- C. Customers can leverage Pure Storage's Capacity Consolidation offering.
- D. Customers can mix HDDs and flash modules within the same array.

**Answer: B**

Explanation:

Pure Storage helps customers increase storage density in their arrays as new technology becomes available through its Evergreen/One subscription program. Here's an analysis of the options:

Analysis of Options:

A). Customers can attach third-party storage arrays to the Pure Storage array:

Pure Storage does not support attaching third-party storage arrays directly to its arrays. This is not a valid option.

B). Customers can leverage Pure Storage's Capacity Consolidation offering:

While capacity consolidation is a benefit of Pure Storage arrays, it does not specifically address increasing storage density with new technology.

C). Customers can mix HDDs and flash modules within the same array:

Pure Storage arrays are all-flash and do not support mixing HDDs and flash modules. This is not a valid option.

D). Customers can add a shelf with an Evergreen/One subscription:

With Evergreen/One, customers can non-disruptively add new shelves or upgrade their arrays to take advantage of newer, denser storage technologies without rebuying existing storage. This is the correct answer.

Recommendation:

The correct answer is

D). Customers can add a shelf with an Evergreen/One subscription.

Reference: Evergreen/One Program Overview:

Evergreen/One

Explains the benefits of Evergreen/One, including non-disruptive upgrades and capacity expansion.

FlashArray Expansion Shelves:

FlashArray Expansion Shelves

Details the process of adding shelves to increase storage capacity.

#### NEW QUESTION # 46

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

**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 # 47

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

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

**Answer: A**

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 # 48

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