

# 2026 Pure Storage FAAA\_005 Updated Advanced Testing Engine



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>> FAAA\_005 Advanced Testing Engine <<

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## Pure Storage FlashArray Architect Associate Sample Questions (Q21-Q26):

### NEW QUESTION # 21

A potential healthcare customer wants to move to a modern storage array for their medical records database. They need the fastest possible array as their workload is highly transactional.

Which solution should an SE recommend?

- A. FlashArray//C
- B. FlashArray//XL
- C. FlashArray//X

**Answer: B**

Explanation:

To meet the healthcare customer's requirement for the fastest possible array for a highly transactional medical records database, FlashArray//XL is the optimal choice.

Here's why:

Analysis of FlashArray Models:

FlashArray//XL:

The FlashArray//XL is Pure Storage's highest-performance all-flash storage array, designed for mission-critical, high-transaction workloads that demand ultra-low latency and maximum throughput.

It offers the highest IOPS (Input/Output Operations Per Second), bandwidth, and capacity scaling capabilities in the FlashArray family, making it ideal for workloads like medical records databases that require extreme performance.

With its advanced NVMe architecture and DirectFlash Modules, FlashArray//XL delivers sub-millisecond latency and exceptional performance consistency, which are critical for transactional workloads.

FlashArray//X:

The FlashArray//X is a high-performance all-flash array but is positioned below the FlashArray//XL in terms of raw performance and scalability.

While it is suitable for most enterprise workloads, it may not provide the same level of performance as FlashArray//XL for highly transactional databases with demanding I/O requirements.

FlashArray//C:

The FlashArray//C is optimized for capacity and cost efficiency rather than raw performance.

It uses QLC NAND flash technology, which is more cost-effective but has lower endurance and performance compared to the TLC NAND used in FlashArray//X and FlashArray//XL.

This makes FlashArray//C unsuitable for highly transactional workloads like a medical records database.

Recommendation:

Given the customer's need for the "fastest possible array" and the highly transactional nature of their workload, FlashArray//XL is the best recommendation. Its ability to deliver consistent, low-latency performance at scale ensures that the medical records database will perform optimally under heavy transactional loads.

Reference: FlashArray//XL Product Overview:

Pure Storage FlashArray//XL

Details the performance and use cases for FlashArray//XL.

FlashArray//X Product Overview:

Pure Storage FlashArray//X

Explains the capabilities of FlashArray//X for enterprise workloads.

FlashArray//C Product Overview:

Pure Storage FlashArray//C

Highlights the cost-efficient design of FlashArray//C for capacity-focused workloads.

## NEW QUESTION # 22

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

**Answer: A**

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 TB × 0.8 = 182.4 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.

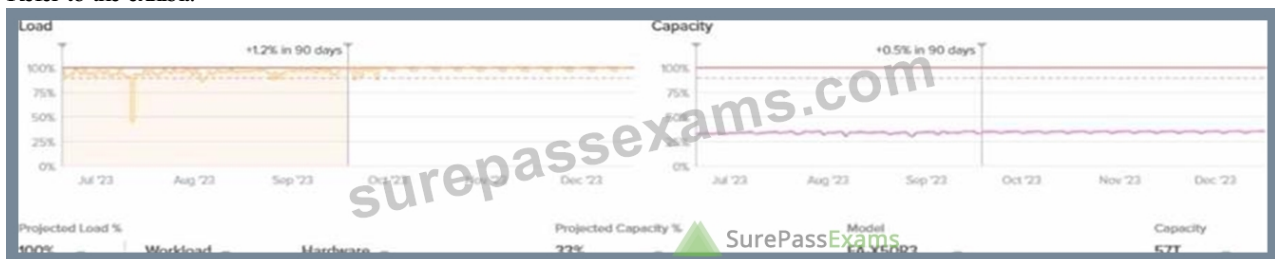
Capacity Planning Guide:

Pure Storage Capacity Planning

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

## NEW QUESTION # 23

Refer to the exhibit.



A customer is experiencing latency in the VMware environment connected to this array.

What should the SE recommend?

- A. Check the ESXi host
- B. Add network cards to alleviate network congestion
- C. Add DirectFlash Modules as the system is disk bound
- D. Upgrade the controllers

**Answer: A**

Explanation:

The exhibit shows latency in the VMware environment connected to the FlashArray. When troubleshooting latency issues in a VMware environment, the first step is to identify whether the issue originates from the storage array, the network, or the ESXi host. In this case, the SE should recommend checking the ESXi host, as it is often the source of latency problems in VMware environments.

Why This Matters:

ESXi Host Issues:

The ESXi host could be experiencing resource contention (e.g., CPU, memory, or network bottlenecks) or misconfigurations (e.g., improper queue depth settings or multipathing policies).

High latency on the ESXi host can impact the performance of virtual machines and appear as storage latency, even if the FlashArray itself is functioning optimally.

Why Not the Other Options?

A). Add DirectFlash Modules as the system is disk bound:

Pure Storage FlashArray uses DirectFlash Modules, which are NVMe-based and provide extremely low latency. If the array were disk-bound, it would indicate a hardware limitation, but this is unlikely with FlashArray's architecture. The issue is more likely related to the ESXi host or network.

B). Upgrade the controllers:

Controller upgrades are typically unnecessary unless the array is nearing its performance limits. Since the exhibit does not indicate any signs of controller saturation, this is not the correct recommendation.

C). Add network cards to alleviate network congestion:

While network congestion can cause latency, the issue is more likely related to the ESXi host configuration. Adding network cards should only be considered after confirming network bottlenecks through diagnostics.

Key Points:

ESXi Host Diagnostics: Start by checking the ESXi host for resource contention, misconfigurations, or improper settings.

Storage Array Health: Verify that the FlashArray is not experiencing any performance issues (e.g., high queue depths or latency).

Network Analysis: Only after ruling out the ESXi host and storage array should network-related issues be investigated.

Reference: Pure Storage FlashArray Documentation: "Troubleshooting Latency in VMware Environments" VMware Best Practices Guide: "Optimizing ESXi Host Performance" Pure Storage Knowledge Base: "Diagnosing and Resolving Latency Issues"

## NEW QUESTION # 24

What does Pure Storage's Right-Size Guarantee promise?

- A. The Data Reduction Rate by workload
- **B. The effective capacity of the FlashArray**
- C. The performance of the FlashArray model
- D. The customer's Total Efficiency Ratio

**Answer: B**

Explanation:

Pure Storage's Right-Size Guarantee promises the effective capacity of the FlashArray, ensuring that customers receive the logical capacity they expect based on their workload's data reduction profile.

Why This Matters:

Effective Capacity:

Effective capacity refers to the logical capacity available after applying data reduction techniques like deduplication, compression, and pattern removal.

The Right-Size Guarantee ensures that customers achieve the expected effective capacity for their workloads, aligning with Pure Storage's commitment to delivering predictable and reliable storage solutions.

Customer Assurance:

If the actual effective capacity does not meet expectations, the customer can work with their SE to address the issue, potentially adjusting their subscription or configuration.

Why Not the Other Options?

A). The performance of the FlashArray model:

The Right-Size Guarantee does not specifically address performance metrics like latency or IOPS. It focuses on capacity-related assurances.

C). The Data Reduction Rate by workload:

While data reduction contributes to effective capacity, the guarantee is not tied to a specific data reduction rate. Instead, it ensures the overall effective capacity meets expectations.

D). The customer's Total Efficiency Ratio:

The Total Efficiency Ratio combines data reduction and other factors but is not the focus of the Right-Size Guarantee.

Key Points:

Effective Capacity: The guarantee ensures customers receive the expected logical capacity based on data reduction.

Data Reduction Techniques: Deduplication, compression, and pattern removal contribute to effective capacity.

Customer Support: Customers can collaborate with their SE if the guaranteed capacity is not achieved.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding the Right-Size Guarantee" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

## NEW QUESTION # 25

An existing customer wants a new set of arrays with the following characteristics:

\* Business critical workload that requires sub millisecond response times

\* Synchronous replication configured to their secondary site

\* Offload snapshots to a third location where they do not have a FlashArray Which solution will meet the customer's needs?

FlashArray//Xs with ActiveDR and CloudSnap

- A. FlashArray//Cs with ActiveCluster and Snapshot Replication
- B. FlashArray//Cs with ActiveDR and Snapshot Replication
- **C. FlashArray//Xs with ActiveCluster and CloudSnap**

**Answer: C**

Explanation:

The customer has the following requirements:

Business-critical workload that requires sub-millisecond response times Synchronous replication configured to their secondary site  
Offload snapshots to a third location where they do not have a FlashArray The best solution to meet these needs is FlashArray//Xs  
with ActiveCluster and CloudSnap.

Why This Matters:

FlashArray//Xs:

FlashArray//X is optimized for high-performance workloads, delivering sub-millisecond response times required for business-critical applications.

ActiveCluster:

ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO for high availability.

CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob), enabling disaster recovery or archival at a third location without requiring an additional FlashArray.

Why Not the Other Options?

B). FlashArray//Cs with ActiveDR and Snapshot Replication:

FlashArray//C is designed for capacity-optimized workloads and does not provide the sub-millisecond response times required for business-critical applications.

ActiveDR provides asynchronous replication, which does not meet the requirement for synchronous replication.

C). FlashArray//Cs with ActiveCluster and Snapshot Replication:

Again, FlashArray//C is not suitable for sub-millisecond response times. Additionally, snapshot replication to a third location is less efficient than CloudSnap for offloading data to the cloud.

Key Points:

FlashArray//Xs: Delivers the high performance required for business-critical workloads. ActiveCluster: Ensures synchronous replication for high availability across two sites. CloudSnap: Provides cost-effective offsite protection by offloading snapshots to the cloud.

Reference: Pure Storage FlashArray Documentation: "ActiveCluster with CloudSnap" Pure Storage Whitepaper: "Disaster Recovery Strategies with FlashArray" Pure Storage Knowledge Base: "Using Protection Groups in Stretched Pods"

## NEW QUESTION # 26

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