

# Dumps FAAA\_005 Discount, New FAAA\_005 Test Syllabus

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1. 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. 177 TiB
- B. 46 TiB
- C. 28 TiB
- D. 12 TiB

**Answer: A**

**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:

$$\text{Effective Capacity Required} = \frac{\text{Logical Data Size}}{\text{DRR}}$$

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:

$$\text{Effective Capacity Required} = \frac{46}{3.85} \approx 11.95 \text{ TiB}$$

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 TiB × DRR = 177 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

2. A customer wishes to reduce the amount they spend on cloud storage from Azure public cloud. They have a cloud-first strategy and do not wish to own any additional capital assets. The applications data mainly consists of 100 TB of Database data.

Which product satisfies this requirement?

- A. Evergreen/Flex
- B. Evergreen/Forever

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## Dumps FAAA\_005 Discount - Realistic 2026 Pure Storage New Pure Storage FlashArray Architect Associate Test Syllabus

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## Pure Storage FlashArray Architect Associate Sample Questions (Q19-Q24):

### NEW QUESTION # 19

Refer to the exhibit.



A customer is experiencing latency in the VMware environment connected to this array.  
What should the SE recommend?

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

**Answer: B**

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 # 20

Which Pure Storage offering allows customers to own their array hardware while paying for storage on a subscription basis?

- A. Evergreen/Foundation

- **B. Evergreen/Flex**
- C. Cloud Block Store
- D. Evergreen/One

**Answer: B**

Explanation:

The Evergreen/Flex offering allows customers to own their array hardware while paying for storage on a subscription basis.

Why This Matters:

Evergreen/Flex:

This model combines the benefits of ownership with the flexibility of a subscription. Customers own the hardware outright but pay for storage capacity and services (e.g., maintenance, upgrades) on a subscription basis.

It provides predictable costs and access to Pure Storage's Evergreen architecture, ensuring long-term value and future-proofing.

Why Not the Other Options?

A). Evergreen/Foundation:

Evergreen/Foundation is a traditional purchase model where customers buy the hardware and software upfront. It does not involve a subscription-based payment structure.

B). Evergreen/One:

Evergreen/One is a fully managed subscription service where customers do not own the hardware.

Instead, they lease the equipment and pay for storage as a service.

D). Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds (e.g., AWS, Azure). It does not involve owning on-premises hardware.

Key Points:

Ownership: Customers retain ownership of the hardware.

Subscription Flexibility: Pay for storage and services on a subscription basis.

Predictable Costs: Aligns with budgeting and financial planning goals.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding Evergreen/Flex" Pure Storage Whitepaper:

"Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen/Flex Works"

## NEW QUESTION # 21

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

### NEW QUESTION # 22

The customer asks if the FlashArray is suitable for a cloud-native application that utilizes containers and Kubernetes. Which response addresses this question?

- A. This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes.
- B. This is supported via an installable CSI provider specifically for the FlashArray.
- C. This is not supported with FlashArray and this application data will need to be stored on a different array.
- **D. This is supported via Pure's Portworx offering.**

**Answer: D**

Explanation:

The FlashArray is suitable for cloud-native applications that utilize containers and Kubernetes, but the best way to address this use case is through Pure Storage's Portworx offering.

Why This Matters:

Portworx:

Portworx is a container storage and data management platform specifically designed for Kubernetes and cloud-native applications. It integrates seamlessly with FlashArray to provide persistent storage, data protection, and advanced features like snapshots, replication, and disaster recovery for containerized workloads.

Portworx ensures high performance, scalability, and reliability for stateful applications running in Kubernetes environments.

Why Not the Other Options?

A). This is not supported with FlashArray and this application data will need to be stored on a different array:

This statement is incorrect. FlashArray is fully capable of supporting cloud-native applications when paired with the right tools, such as Portworx.

B). This is supported via an installable CSI provider specifically for the FlashArray:

While FlashArray does support a Container Storage Interface (CSI) driver, it is a basic integration and does not provide the advanced features and capabilities offered by Portworx for Kubernetes environments.

D). This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes:

This statement is incorrect. Pure Storage solutions are compatible with both direct-attached storage (DAS) and external storage arrays like FlashArray.

Key Points:

Portworx: The recommended solution for integrating FlashArray with Kubernetes and containerized applications.

Advanced Features: Provides persistent storage, data protection, and scalability for cloud-native workloads.

Integration: Ensures seamless compatibility between FlashArray and Kubernetes environments.

Reference: Pure Storage Portworx Documentation: "Integrating Portworx with FlashArray" Pure Storage Whitepaper: "Cloud-Native Storage Solutions with Portworx" Pure Storage Knowledge Base: "Best Practices for Kubernetes and FlashArray Integration"

### NEW QUESTION # 23

Which two features are specific to the Evergreen/Forever Program and are NOT included with Evergreen/Foundation? (Choose two.)

- A. Capacity Consolidation
- B. Pro Deployment
- **C. Controller Upgrades**
- **D. Upgrade Always**

**Answer: C,D**

Explanation:

The Evergreen/Forever program is Pure Storage's premium subscription offering, providing continuous upgrades and enhancements to ensure customers always have access to the latest technology. In contrast, Evergreen/Foundation is a lower-tier subscription with limited benefits.

Here's an analysis of the features:

Correct Features:

A). Controller Upgrades:

Controller upgrades are a key feature of Evergreen//Forever, allowing customers to upgrade their FlashArray controllers non-disruptively to newer generations.

This feature is not included in Evergreen//Foundation.

D). Upgrade Always:

"Upgrade Always" ensures that customers can continuously upgrade their hardware and software without additional costs.

This is a hallmark of Evergreen//Forever and is not available in Evergreen//Foundation.

Incorrect Features:

B). Pro Deployment:

Pro Deployment services are available across all Evergreen tiers, including Evergreen//Foundation. Therefore, this is not specific to Evergreen//Forever.

C). Capacity Consolidation:

Capacity consolidation is a general benefit of Pure Storage arrays and is not exclusive to Evergreen//Forever.

It is also available in Evergreen//Foundation.

Final Recommendation:

The correct answers are

A). Controller Upgrades and

D). Upgrade Always, as these are specific to Evergreen//Forever and not included in Evergreen//Foundation.

Reference: Evergreen//Forever Program Overview:

Evergreen//Forever

Explains the benefits and features of Evergreen//Forever.

Evergreen Subscription Tiers Comparison:

Evergreen Tiers

Compares the features of Evergreen//Forever and Evergreen//Foundation.

## NEW QUESTION # 24

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