

# Exam FAAA\_005 Preview - FAAA\_005 Real Brain Dumps

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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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## Pure Storage FlashArray Architect Associate Sample Questions (Q57-Q62):

### NEW QUESTION # 57

Which Evergreen/Forever benefit allows a customer to trade in an existing 12 TB shelf for a new 60 TB shelf while only paying for a 48 TB increase?

- A. Capacity Consolidation
- **B. Right-Size Guarantee**
- C. Flat is Fair Maintenance
- D. Love Your Storage

**Answer: B**

Explanation:

The Right-Size Guarantee is an Evergreen/Forever benefit that allows customers to trade in existing storage shelves for newer, higher-capacity shelves while only paying for the incremental capacity increase. In this scenario, the customer can trade in a 12 TB shelf for a 60 TB shelf and only pay for the additional 48 TB of capacity.

Why This Matters:

The Right-Size Guarantee ensures that customers can upgrade their storage infrastructure without overpaying for capacity they already own. This aligns with Pure Storage's commitment to providing flexible and cost-effective storage solutions.

By leveraging this benefit, the customer can modernize their storage environment while optimizing costs.

Why Not the Other Options?

A). Capacity Consolidation:

Capacity Consolidation refers to the ability to consolidate workloads onto fewer arrays or shelves, but it does not specifically address trading in existing shelves for higher-capacity ones at a reduced cost.

B). Flat is Fair Maintenance:

Flat is Fair Maintenance ensures predictable and consistent maintenance pricing over time, but it does not apply to upgrading or trading in storage shelves.

D). Love Your Storage:

Love Your Storage is a program that provides hardware upgrades and enhancements, but it does not directly relate to trading in shelves for capacity increases.

Key Points:

Right-Size Guarantee: Allows customers to trade in existing shelves for higher-capacity shelves at a reduced cost.

Cost Optimization: Ensures customers only pay for the incremental capacity increase, reducing total cost of ownership (TCO).

Evergreen Benefits: Part of Pure Storage's commitment to delivering flexible and future-proof storage solutions.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding the Right-Size Guarantee" Pure Storage Whitepaper: "Evergreen Architecture and Subscription Benefits" Pure Storage Knowledge Base: "How to Leverage the Right-Size Guarantee"

### NEW QUESTION # 58

A customer currently has a FlashArray//X for their block storage with 40 TB of available storage. They need 10 TB of file workloads and want to spend the least amount possible on infrastructure.

What should the SE recommend?

- A. Purchase an entry level FlashBlade for the file workload
- **B. Run both workloads on the current FlashArray**
- C. Add another disk pool for file storage to their current FlashArray
- D. NDU the FlashArray//X to a //XL and run both workloads there

**Answer: B**

Explanation:

The customer currently has a FlashArray//X with 40 TB of available block storage and needs to add 10 TB of file workloads while minimizing infrastructure costs. Let's analyze the options:

Analysis of Options:

A). Run both workloads on the current FlashArray:

Pure Storage FlashArray supports both block and file workloads using the Purity File Services feature, which allows customers to run file workloads directly on their FlashArray.

Since the FlashArray already has 40 TB of available storage, adding 10 TB of file workloads is feasible without requiring additional hardware. This is the most cost-effective solution.

B). Add another disk pool for file storage to their current FlashArray:

Adding a separate disk pool for file storage is unnecessary because Purity File Services can handle both block and file workloads on the same array.

C). Purchase an entry-level FlashBlade for the file workload:

While FlashBlade is designed for file and object workloads, purchasing a new FlashBlade would be significantly more expensive than leveraging the existing FlashArray. This option does not align with the customer's goal of minimizing costs.

D). NDU the FlashArray //X to a //XL and run both workloads there:

Upgrading the FlashArray//X to a FlashArray//XL via a Non-Disruptive Upgrade (NDU) is unnecessary for this use case. The current FlashArray//X has sufficient capacity to handle both workloads, and upgrading to a higher-tier array would increase costs unnecessarily.

Recommendation:

The most cost-effective solution is

A). Run both workloads on the current FlashArray, leveraging Purity File Services to support the file workload.

Reference: Purity File Services Documentation:

Purity File Services

Explains how to configure and use file services on FlashArray.

FlashArray Use Cases:

FlashArray Use Cases

Highlights the versatility of FlashArray for both block and file workloads.

## NEW QUESTION # 59

What should a protection group in a stretched pod be used for?

- **A. Integrating ActiveCluster with async snapshot replication**
- B. Initiating ActiveDR failover/failback in a test scenario
- C. Configuring fan-out async snapshot replication
- D. Using CloudSnap to offload to a third-site target

**Answer: A**

Explanation:

A protection group in a stretched pod should be used for integrating ActiveCluster with asynchronous snapshot replication. This combination allows for synchronous replication within the stretched pod (using ActiveCluster) while also enabling asynchronous replication to a third site for additional disaster recovery protection.

Why This Matters:

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

Async Snapshot Replication: Extends the disaster recovery strategy by replicating snapshots asynchronously to a third site, providing an additional layer of protection against regional failures.

Combining these features ensures both local high availability and remote disaster recovery.

Why Not the Other Options?

B). Using CloudSnap to offload to a third-site target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup purposes, it does not integrate with ActiveCluster for synchronous replication.

C). Initiating ActiveDR failover/failback in a test scenario:

ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not integrate with ActiveCluster in a stretched pod configuration.

D). Configuring fan-out async snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, this does not align with the use case of integrating ActiveCluster with async replication for a stretched pod.

Key Points:

Stretched Pod: Enables synchronous replication across two sites using ActiveCluster. Async Replication: Adds a third-site replication target for comprehensive disaster recovery. Integrated Protection: Combines high availability and disaster recovery into a single solution.

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

### NEW QUESTION # 60

Which Pure Storage offering can be deployed in AWS?

- A. CloudSnap
- B. ObjectEngine
- C. Cloud Block Store

**Answer: C**

Explanation:

The Pure Storage offering that can be deployed in AWS is Cloud Block Store.

Why This Matters:

Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds like AWS and Azure.

It provides enterprise-grade storage features, including deduplication, compression, and thin provisioning, while seamlessly integrating with on-premises FlashArray environments.

Why Not the Other Options?

A). ObjectEngine:

ObjectEngine is a backup and recovery solution designed for rapid restores and backups. It is not a storage solution that can be deployed in AWS.

C). CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). It is not a standalone storage solution but rather a feature of FlashArray.

Key Points:

Cloud Block Store: Provides block storage in AWS with enterprise-grade features.

Integration: Seamlessly integrates with on-premises FlashArray environments for hybrid cloud architectures.

Scalability: Enables scalable and cost-effective storage in the cloud.

Reference: Pure Storage Cloud Block Store Documentation: "Deploying Cloud Block Store in AWS" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store" Pure Storage Knowledge Base: "Cloud Block Store Use Cases and Deployment"

### NEW QUESTION # 61

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

**Answer: A**

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 # 62

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