

# FAAA\_005 Reliable Exam Sample & Valid Braindumps

## FAAA\_005 Questions

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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 (Q51-Q56):

### NEW QUESTION # 51

A Storage Administrator has two //X50R3 FlashArrays. The two FlashArrays are located in different data centers with a network link between them. The ethernet link between data centers has a latency of 35 ms.

Which Purity feature will provide protection against a site failure with the lowest recovery point?

- A. ActiveCluster
- B. Local snapshots
- C. Snapshot replication
- **D. ActiveDR**

**Answer: D**

Explanation:

Given that the two FlashArrays are located in different data centers with a network link latency of 35 ms, the best Purity feature to provide protection against a site failure with the lowest recovery point is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., >10 ms latency).

It provides low RPOs (typically seconds to minutes) and supports fast failover and failback capabilities, ensuring minimal data loss and downtime.

With a 35 ms latency between sites, synchronous replication (e.g., ActiveCluster) is not feasible due to the high latency impacting performance.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster requires synchronous replication, which is only suitable for sites within a low-latency range (<10 ms). At 35 ms latency, ActiveCluster would cause significant performance degradation.

C). Snapshot replication:

Snapshot replication is asynchronous but does not provide the same level of failover and failback capabilities as ActiveDR. It is better suited for backup purposes rather than disaster recovery with low RPOs.

D). Local snapshots:

Local snapshots are useful for point-in-time recovery within a single array but do not protect against site failures.

Key Points:

ActiveDR: Ideal for asynchronous replication with low RPOs and fast failover/failback.

Latency Considerations: ActiveDR supports higher latencies (e.g., 35 ms) 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 # 52

A customer wants to have more insight into and control of their Pure Storage FlashArray and VMware environment from a single user interface.

What does the customer need to do to enable this capability in their environment?

- A. Install Pure Storage SRA for VMware Site Recovery Manager (SRM)
- **B. Configure FlashArray Management Pack for vRealize Operations Manager**
- C. Log in to the FlashArray GUI and install the plugin for vSphere Client
- D. Ensure all VMware API for Array Integration (VAAI) primitives are enabled

**Answer: B**

Explanation:

To gain more insight and control over their Pure Storage FlashArray and VMware environment from a single user interface, the

customer should configure the FlashArray Management Pack for vRealize Operations Manager (vROps).

Here's why:

Analysis of Options:

A). Ensure all VMware API for Array Integration (VAAI) primitives are enabled:

VAAI is a set of APIs that offloads storage tasks from the ESXi host to the storage array, improving performance and efficiency.

However, it does not provide a unified interface for managing both FlashArray and VMware environments.

B). Log in to the FlashArray GUI and install the plugin for vSphere Client:

While the FlashArray plugin for vSphere Client provides some integration, such as provisioning and monitoring FlashArray volumes directly from the vSphere Client, it does not offer comprehensive visibility and control over both environments from a single interface.

C). Configure FlashArray Management Pack for vRealize Operations Manager:

The FlashArray Management Pack for vROps integrates Pure Storage FlashArray with VMware vRealize Operations Manager, enabling centralized monitoring, analytics, and management of both environments from a single pane of glass.

This solution provides deep insights into storage performance, capacity utilization, and health metrics, making it the ideal choice for the customer's requirement.

D). Install Pure Storage SRA for VMware Site Recovery Manager (SRM):

The Pure Storage Storage Replication Adapter (SRA) is used for disaster recovery orchestration with VMware SRM. It does not provide a unified interface for managing FlashArray and VMware environments.

Recommendation:

The correct answer is C. Configure FlashArray Management Pack for vRealize Operations Manager, as it fulfills the customer's need for a single user interface to manage both FlashArray and VMware environments.

Reference: Pure Storage FlashArray Management Pack for vROps Documentation:

FlashArray Management Pack for vROps

Explains how to integrate FlashArray with vROps for unified monitoring and management.

Pure Storage VMware Integration Overview:

Pure Storage VMware Integration

Provides an overview of Pure Storage's VMware integration solutions.

### NEW QUESTION # 53

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

**Answer: B**

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 # 54

Refer to the exhibit.

The customer wants to add an additional 10 TB of test/dev workload to this array.  
What should the SE recommend?

- A. Add more DirectFlash NVMe modules to the expansion shelf to handle the additional capacity.
- B. Upgrade the controller to an //X90R3 to handle the additional workload.
- **C. The workload can be added, but the admin should continue monitoring performance and capacity.**
- D. Upgrade the 22 TB DirectFlash NVMe modules to a higher capacity to handle the additional workload.

**Answer: C**

Explanation:

SE should recommend adding the 10 TB test/dev workload to the array while advising the admin to monitor performance and capacity. This recommendation assumes that the array has sufficient resources (e.g., available capacity, performance headroom) to handle the additional workload without requiring immediate upgrades or changes.

Why This Matters:

Current Array Capacity and Performance:

Pure Storage FlashArray is designed to efficiently handle workloads with advanced data reduction techniques (deduplication, compression, etc.) and high-performance NVMe storage.

If the array has sufficient unused capacity and performance headroom, adding a 10 TB test/dev workload is feasible without requiring hardware upgrades.

Monitoring:

After adding the workload, it is critical to monitor both performance metrics (e.g., latency, IOPS, throughput) and capacity utilization to ensure the array continues to meet SLAs and does not exceed its limits.

Why Not the Other Options?

A). Upgrade the controller to an //X90R3 to handle the additional workload:

Upgrading the controller is unnecessary unless the current controller is nearing its performance limits. Test/dev workloads are typically less demanding than production workloads, so this step would likely be premature.

B). Add more DirectFlash NVMe modules to the expansion shelf to handle the additional capacity:

Adding more NVMe modules is only necessary if the array is running out of physical capacity. If the array already has sufficient capacity, this step is not required.

C). Upgrade the 22 TB DirectFlash NVMe modules to a higher capacity to handle the additional workload:

Upgrading the NVMe modules to higher-capacity ones is a significant investment and is only justified if the array is consistently running out of capacity. For a 10 TB workload, this step is likely excessive.

Key Points:

Feasibility of Adding Workload: The array can likely handle the additional 10 TB workload without immediate upgrades.

Monitoring: Continuous monitoring ensures that performance and capacity remain within acceptable limits.

Cost Efficiency: Avoiding unnecessary upgrades or changes helps optimize costs while meeting the customer's needs.

Reference: Pure Storage FlashArray Documentation: "Capacity Planning and Workload Sizing" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Adding Workloads to FlashArray Without Disruption"

#### NEW QUESTION # 55

A manufacturing customer is running Oracle volumes on their existing //X90R3 array and would like to use FlashArray for their Windows file shares. They are asking if it is feasible to do this.

How should the SE respond?

- A. The customer needs to upgrade to XL to be able to use FA File.
- **B. The customer should be able to use their current FlashArray.**
- C. The customer should migrate their Windows file servers to Pure.

**Answer: B**

**Explanation:**

The SE should respond that the customer can use their current FlashArray for Windows file shares alongside their existing Oracle workloads. Pure Storage FlashArray is a versatile platform capable of supporting multiple workloads, including block storage for databases (e.g., Oracle) and file services for Windows file shares.

**Why This Matters:**

**FlashArray Versatility:**

Pure Storage FlashArray supports both block and file workloads through its integrated architecture. While FlashArray is primarily known for block storage, it can also support file workloads using FA File Services, which provides NFS and SMB protocols for file sharing.

The customer does not need to migrate their Windows file servers or upgrade their hardware unless there are specific capacity or performance constraints.

**Current Array Feasibility:**

Assuming the existing //X90R3 array has sufficient capacity and performance headroom, it can handle the additional workload without requiring upgrades.

**Why Not the Other Options?**

A). The customer should migrate their Windows file servers to Pure:

While migrating file servers to Pure Storage can provide benefits like simplified management and improved performance, it is not a requirement. The customer can continue using their existing file servers while leveraging FlashArray for block storage.

B). The customer needs to upgrade to XL to be able to use FA File:

Upgrading to a higher-end model like FlashArray//XL is unnecessary unless the current array lacks the required capacity or performance for the additional workload. The //X90R3 is fully capable of supporting FA File Services.

**Key Points:**

**Versatility:** FlashArray can support both block and file workloads simultaneously.

**No Immediate Upgrades Needed:** The current array can likely handle the additional workload without requiring hardware changes.

**Workload Consolidation:** Using a single platform for multiple workloads simplifies infrastructure and reduces costs.

**Reference:** Pure Storage FlashArray Documentation: "FA File Services Overview" Pure Storage Whitepaper: "Consolidating Workloads on FlashArray" Pure Storage Knowledge Base: "Supporting Multiple Workloads with FlashArray"

**NEW QUESTION # 56**

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