

# IT-Tests FAAA\_005 Test Study Guide, Answer Pure Storage FAAA\_005 Practice Exam 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  $46 \text{ TiB} \times \text{DRR} = 177 \text{ TiB}$ .

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 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 (Q19-Q24):

### NEW QUESTION # 19

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. Ensure all VMware API for Array Integration (VAAI) primitives are enabled
- C. Log in to the FlashArray GUI and install the plugin for vSphere Client
- D. **Configure FlashArray Management Pack for vRealize Operations Manager**

**Answer: D**

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 # 20

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 not supported with FlashArray and this application data will need to be stored on a different array.
- B. This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes.
- C. This is supported via an installable CSI provider specifically for the FlashArray.
- 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 # 21

A potential customer has a use case where they need to use a stretched cluster for high availability and also require a third copy of their data in a remote geographic location.

Which replication method should be recommended?

- A. ActiveDR with periodic snapshot replication
- B. Fan-out asynchronous snapshot replication
- C. CloudSnap to an offload target
- D. **ActiveCluster with asynchronous snapshot replication**

Answer: D

Explanation:

The customer requires a storage solution that supports a stretched cluster for high availability and also maintains a third copy of their data in a remote geographic location. The best replication method to recommend is ActiveCluster with asynchronous snapshot replication.

Why This Matters:

ActiveCluster:

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

It is ideal for scenarios where applications require continuous access to data across two locations.

Asynchronous Snapshot Replication:

Asynchronous replication extends the disaster recovery strategy by replicating snapshots to a third site. This ensures an additional layer of protection against regional failures.

Why Not the Other Options?

A). CloudSnap to an offload target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it satisfies the requirement for a third copy, it does not integrate with ActiveCluster for high availability in a stretched cluster.

B). Fan-out asynchronous snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, it does not provide the synchronous replication required for a stretched cluster.

C). ActiveDR with periodic snapshot replication:

ActiveDR is designed for asynchronous replication and failover/fallback scenarios but does not support synchronous replication for a stretched cluster.

Key Points:

ActiveCluster: Ensures high availability with synchronous replication in a stretched cluster.

Async Replication: Adds a third-site replication target for comprehensive disaster recovery.

Integrated Solution: Combines high availability and disaster recovery into a single architecture.

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 # 22

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

### Answer: A

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 # 23

What metric is used to compute billing when customers leverage the Evergreen//One offering?

- A. Capacity provisioned to hosts
- B. Raw capacity consumed
- C. Effective capacity consumed
- D. Total capacity installed

### Answer: C

Explanation:

When customers leverage the Evergreen//One offering, billing is based on the effective capacity consumed.

Why This Matters:

Effective Capacity Consumed:

Evergreen/One is a subscription-based model where customers pay for the logical capacity they consume after applying data reduction techniques like deduplication, compression, and pattern removal.

This ensures customers only pay for the actual usable capacity they need, aligning with Pure Storage's commitment to delivering predictable and cost-effective storage solutions.

Why Not the Other Options?

A). Total capacity installed:

Billing is not based on the total raw capacity installed in the array, as this does not reflect the actual usable capacity after data reduction.

B). Raw capacity consumed:

Raw capacity refers to the physical storage used before applying data reduction. Evergreen/One focuses on effective capacity, not raw capacity.

D). Capacity provisioned to hosts:

Provisioned capacity refers to the logical space allocated to hosts, which may include unused or overprovisioned space. Billing is based on the actual consumed capacity.

Key Points:

Effective Capacity: Reflects the logical capacity consumed after data reduction.

Subscription Model: Aligns with Evergreen/One's focus on predictable and flexible billing.

Data Reduction: Deduplication, compression, and pattern removal optimize storage efficiency, reducing costs for customers.

Reference: Pure Storage Evergreen/One Documentation: "Understanding Billing Metrics" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen/One Billing Works"

## NEW QUESTION # 24

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