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## Pure Storage FlashArray Architect Associate Sample Questions (Q48-Q53):

### NEW QUESTION # 48

A customer is unsatisfied because the level of data reduction on their FlashArray is NOT as high as expected. What two statements should the SE make to the customer? (Choose two.)

- A. FlashArray data reduction needs to be tuned to increase its effectiveness.
- **B. The Right-Size Guarantee means that the customer can work with their SE if necessary.**
- C. A FlashArray's compression and deduplication will need to be tuned for data subsets.
- **D. FlashArray's deduplication effectiveness will usually increase as the data quantity grows.**

**Answer: B,D**

Explanation:

If a customer is unsatisfied with the level of data reduction on their FlashArray, the SE should make the following two statements:

FlashArray's deduplication effectiveness will usually increase as the data quantity grows:

Deduplication relies on identifying and eliminating duplicate data blocks. As more data is written to the array, the likelihood of finding duplicates increases, improving the overall deduplication ratio.

Customers should expect better data reduction results over time as their dataset grows.

The Right-Size Guarantee means that the customer can work with their SE if necessary:

Pure Storage's Right-Size Guarantee ensures that customers receive the expected effective capacity based on their workload's data reduction profile. If the actual data reduction does not meet expectations, the customer can collaborate with their SE to address the issue and potentially adjust their subscription or configuration.

Why Not the Other Options?

A). A FlashArray's compression and deduplication will need to be tuned for data subsets:

FlashArray's data reduction techniques (compression and deduplication) are automatic and do not require manual tuning. This statement is misleading.

C). FlashArray data reduction needs to be tuned to increase its effectiveness:

Similar to Option A, FlashArray's data reduction mechanisms are fully automated and do not require manual intervention.

Key Points:

Data Growth: Deduplication effectiveness improves as more data is written to the array.

Right-Size Guarantee: Provides assurance that customers can work with their SE to address data reduction concerns.

Automatic Optimization: FlashArray's data reduction features are self-optimizing and do not require manual tuning.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction and Capacity Planning" Pure Storage

Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

### NEW QUESTION # 49

How does Pure Storage help customers increase storage density in their arrays, as new technology becomes available, without rebuying existing storage?

- **A. Customers can add a shelf with a Evergreen/One subscription.**
- B. Customers can leverage Pure Storage's Capacity Consolidation offering.
- C. Customers can attach third-party storage arrays to the Pure Storage array.
- D. Customers can mix HDDs and flash modules within the same array.

**Answer: A**

Explanation:

Pure Storage helps customers increase storage density in their arrays as new technology becomes available through its

Evergreen/One subscription program. Here's an analysis of the options:

Analysis of Options:

A). Customers can attach third-party storage arrays to the Pure Storage array:

Pure Storage does not support attaching third-party storage arrays directly to its arrays. This is not a valid option.

B). Customers can leverage Pure Storage's Capacity Consolidation offering:

While capacity consolidation is a benefit of Pure Storage arrays, it does not specifically address increasing storage density with new technology.

C). Customers can mix HDDs and flash modules within the same array:

Pure Storage arrays are all-flash and do not support mixing HDDs and flash modules. This is not a valid option.

D). Customers can add a shelf with an Evergreen/One subscription:

With Evergreen//One, customers can non-disruptively add new shelves or upgrade their arrays to take advantage of newer, denser storage technologies without rebuying existing storage. This is the correct answer.

Recommendation:

The correct answer is

D). Customers can add a shelf with an Evergreen//One subscription.

Reference: Evergreen//One Program Overview:

Evergreen//One

Explains the benefits of Evergreen//One, including non-disruptive upgrades and capacity expansion.

FlashArray Expansion Shelves:

FlashArray Expansion Shelves

Details the process of adding shelves to increase storage capacity.

## NEW QUESTION # 50

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

**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 # 51

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

**Answer: D**

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 Practices Guide: "Capacity Management and Workload Sizing" Pure1 Support Portal: Knowledge Base Articles on DRR and Logical Capacity Calculation

## NEW QUESTION # 52

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. Fan-out asynchronous snapshot replication
- B. ActiveDR with periodic 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/failback 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 # 53

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