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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 (Q13-Q18):

NEW QUESTION # 13

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

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

Answer: D

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 # 14

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. Async Replication
- C. **ActiveDR**

Answer: C

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 # 15

Which offering discounts controller upgrades with a purchase of qualifying storage capacity?

- A. Capacity Consolidation
- B. Love Your Storage
- C. Ever Agile
- D. Right-Size Guarantee

Answer: B

Explanation:

The offering that discounts controller upgrades with a purchase of qualifying storage capacity is Love Your Storage.

Why This Matters:

Love Your Storage:

This program is part of Pure Storage's Evergreen/Forever subscription model. It allows customers to upgrade their controllers at a discounted rate when they purchase additional qualifying storage capacity.

The goal is to ensure that customers can modernize their infrastructure without incurring excessive costs, aligning with Pure Storage's commitment to providing flexible and future-proof solutions.

Why Not the Other Options?

B). Right-Size Guarantee:

The Right-Size Guarantee allows customers to trade in existing shelves for higher-capacity ones while only paying for the incremental capacity increase. It does not involve discounts on controller upgrades.

C). Capacity Consolidation:

Capacity Consolidation refers to the ability to consolidate workloads onto fewer arrays or shelves but does not include discounts on controller upgrades.

D). Ever Agile:

Ever Agile is a subscription model that provides flexibility in scaling storage and compute resources but does not specifically discount controller upgrades tied to storage purchases.

Key Points:

Love Your Storage: Discounts controller upgrades when purchasing qualifying storage capacity. Evergreen Benefits: Ensures customers can modernize their infrastructure cost-effectively. Future-Proofing: Aligns with Pure Storage's commitment to delivering long-term value.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding Love Your Storage" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Love Your Storage Works"

NEW QUESTION # 16

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. CloudSnap to an offload target
- C. ActiveDR with periodic snapshot replication
- 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 # 17

A customer has deployed an ActiveCluster solution with Uniform Configuration. The customer wants to make sure that all host connections are configured to the array according to best practices.

What Fibre Channel connections should the architect recommend for the customer to use?

- A. Dual connections from each controller through two fabrics
- B. Crossed connections from each controller through a single fabric
- C. A single connection from each controller through a single fabric
- D. A single connection from each controller through two fabrics

Answer: A

Explanation:

For an ActiveCluster solution with Uniform Configuration, the architect should recommend dual connections from each controller through two fabrics to ensure high availability and redundancy in Fibre Channel connectivity.

Why This Matters:

Dual Connections:

Each controller should have dual connections to provide redundancy and fault tolerance. If one connection fails, the other ensures uninterrupted communication between the host and the array.

Two Fabrics:

Using two independent Fibre Channel fabrics (e.g., Fabric A and Fabric B) ensures that there is no single point of failure in the

network infrastructure. This aligns with best practices for ActiveCluster deployments.

Why Not the Other Options?

B). A single connection from each controller through two fabrics:

A single connection per controller does not provide sufficient redundancy. If the connection fails, the host may lose access to the array.

C). Crossed connections from each controller through a single fabric:

Using a single fabric introduces a single point of failure. Additionally, "crossed connections" are not a standard or recommended configuration for ActiveCluster.

D). A single connection from each controller through a single fabric:

This configuration lacks both redundancy at the connection level and at the fabric level, making it highly vulnerable to failures.

Key Points:

Redundancy: Dual connections and two fabrics ensure fault tolerance and high availability. Best Practices: Aligns with Pure Storage's recommendations for ActiveCluster deployments. Uniform Configuration: Ensures consistent and reliable connectivity across all hosts in the cluster.

Reference: Pure Storage FlashArray Documentation: "ActiveCluster Best Practices for Fibre Channel Connectivity" Pure Storage Whitepaper: "Designing High-Availability Solutions with ActiveCluster" Pure Storage Knowledge Base: "Configuring Host Connections for ActiveCluster"

NEW QUESTION # 18

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