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Pure Storage FlashArray Architect Associate Sample Questions (Q41-Q46):

NEW QUESTION # 41

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

Answer: B

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 # 42

A customer needs to be able to replicate from on-prem into the public cloud. They want to use the cloud as their DR site with failover and fallback capabilities.

Which Pure Storage feature should the customer use?

- A. ActiveCluster FC replication between a FlashArray on site and Evergreen/One
- B. Purity//FA CloudSnap periodic offload of snapshots to AWS
- **C. Snapshot replication to replicate between a FlashArray on site and Cloud Block Store**

Answer: C

Explanation:

The customer requires a disaster recovery (DR) solution that allows them to replicate data from their on-premises environment to the

public cloud. They also need failover and fallback capabilities, meaning they must be able to switch operations to the cloud during a disaster and revert back to on-premises once the issue is resolved.

Snapshot replication between a FlashArray on-premises and Cloud Block Store (CBS) is the best solution for this use case. CBS integrates seamlessly with on-premises FlashArrays, enabling efficient replication of snapshots to the cloud. This feature supports failover and fallback operations, ensuring business continuity in the event of a disaster.

Why Not the Other Options?

B). Purity//FA CloudSnap periodic offload of snapshots to AWS: While CloudSnap allows periodic offloading of snapshots to AWS S3 for backup purposes, it does not provide the real-time replication and failover/fallback capabilities required for DR.

C). ActiveCluster FC replication between a FlashArray on site and Evergreen//One: ActiveCluster is designed for synchronous replication between two FlashArrays in different locations, but it does not support replication to the public cloud.

Key Points:

Snapshot Replication: Enables efficient and reliable replication of data between on-premises FlashArrays and Cloud Block Store.

Failover and Fallback: CBS supports these capabilities, ensuring minimal downtime during a disaster.

Integration with FlashArray: CBS is specifically designed to work with FlashArray, providing a seamless DR solution.

Reference: Pure Storage Cloud Block Store Documentation: "Disaster Recovery with Cloud Block Store" Pure Storage Best Practices Guide: "Replication and Failover in Hybrid Cloud Environments" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store"

NEW QUESTION # 43

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

- A. Customers can mix HDDs and flash modules within the same array.
- B. Customers can attach third-party storage arrays to the Pure Storage 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 # 44

What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

- A. InfiniBand connectivity between controllers
- B. Common controller chassis for both models**

- C. NVRAM modules in both controllers
- D. Re-use of existing HBAs to prevent WWN changes

Answer: B

Explanation:

The architectural design that simplifies controller upgrades from FlashArray//XR2 to //XR3 is the use of a common controller chassis for both models. This design allows customers to upgrade their controllers without replacing the entire array chassis, minimizing downtime and complexity during the upgrade process.

Why This Matters:

The common controller chassis ensures that the physical infrastructure (e.g., drive shelves, power supplies, and other components) remains unchanged during the upgrade. Only the controllers themselves need to be swapped out, which significantly reduces the time and effort required for the upgrade.

This approach also eliminates the need for re-cabling or reconfiguring the array, as the chassis and its connections remain consistent between the two models.

Why Not the Other Options?

B). InfiniBand connectivity between controllers: While InfiniBand is used for high-speed communication between controllers in FlashArray systems, it is not directly related to simplifying controller upgrades. It is a feature of the architecture but does not address the ease of upgrading between models.

C). NVRAM modules in both controllers: NVRAM (Non-Volatile RAM) is used to ensure data integrity during power loss, but it is not a factor in simplifying controller upgrades. Both XR2 and XR3 models include NVRAM, so this is not unique to the upgrade process.

D). Re-use of existing HBAs to prevent WWN changes: While reusing HBAs can help avoid changes to World Wide Names (WWNs), this is not a key factor in simplifying the upgrade process. The common controller chassis is the primary design feature that streamlines the upgrade.

Key Points:

Common Controller Chassis: Enables seamless upgrades by allowing the replacement of controllers without changing the rest of the array infrastructure.

Minimized Downtime: Reduces the time and complexity of upgrades, ensuring minimal disruption to operations.

Consistency Across Models: Ensures compatibility and continuity between different generations of FlashArray controllers.

Reference: Pure Storage FlashArray//X Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Evergreen Architecture and Controller Upgrades" Pure Storage Knowledge Base: "Upgrading FlashArray Controllers Without Downtime"

NEW QUESTION # 45

A customer wants to store 100 TiB of Oracle data and 200 TiB of VDI data onto a FlashArray. When checking the data reduction ratio, the given data reduction ratios are 4:1 for Oracle and 5:1 for VDI.

What is the minimum useable capacity needed on the FlashArray?

- A. 65TiB
- **B. 40TiB**
- C. 750TiB
- D. 300TiB

Answer: B

Explanation:

To calculate the minimum usable capacity needed on the FlashArray, we must account for the data reduction ratios provided for Oracle and VDI workloads.

Here's the step-by-step calculation:

Given Data:

Oracle data: 100 TiB with a 4:1 data reduction ratio.

VDI data: 200 TiB with a 5:1 data reduction ratio.

Calculation:

Oracle Data Reduction:

Effective capacity after reduction = $100 \text{ TiB} \div 4 = 25 \text{ TiB}$.

VDI Data Reduction:

Effective capacity after reduction = $200 \text{ TiB} \div 5 = 40 \text{ TiB}$.

Total Usable Capacity Needed:

Total effective capacity = $25 \text{ TiB (Oracle)} + 40 \text{ TiB (VDI)} = 65 \text{ TiB}$.

Recommendation:

The minimum usable capacity needed on the FlashArray is 65 TiB. However, since the question asks for the minimum usable capacity and the options include 40 TiB, it appears there may be a misunderstanding in the question phrasing. Assuming the intent is to find the total usable capacity, the correct answer is 65 TiB.

Reference: Pure Storage Data Reduction Overview:

Pure Storage Data Reduction

Explains how data reduction ratios impact storage capacity planning.

FlashArray Capacity Planning Guide:

FlashArray Capacity Planning

Provides guidance on calculating usable capacity based on data reduction ratios.

NEW QUESTION # 46

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