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Exam : FAAA_005

Title : Pure Storage FlashArray
Architect Associate

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Pure Storage FlashArray Architect Associate Sample Questions (Q19-Q24):

NEW QUESTION # 19

A customer is in the very early stages of designing a storage solution at a greenfield site.

They wish to use NVMe-TCP connectivity and require approximately:

- * 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches.

- * The dedicated SAN switches support up to 25 Gbps connectivity.

What is the minimum number of Ethernet ports in total they should connect from the FlashArray to the SAN switches while still ensuring resiliency?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

To achieve 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches, while ensuring resiliency, the customer must connect a sufficient number of Ethernet ports from the FlashArray to the SAN switches. Given that the dedicated SAN switches support up to 25 Gbps connectivity per port, the calculation is as follows:

Throughput Requirement:

The customer requires 100 Gbps of raw throughput.

Each Ethernet port provides 25 Gbps of bandwidth.

Number of Ports Needed:

To meet the 100 Gbps requirement:

Resiliency Requirement:

Resiliency ensures that the solution can tolerate failures (e.g., switch or link failures). To achieve this, the customer must double the number of ports to provide redundant paths.

Therefore, the total number of ports required is: $4 \times 2 = 8$ ports.

Why Not the Other Options?

B).2:

Two ports would only provide 50 Gbps of raw throughput (2×25 Gbps), which does not meet the 100 Gbps requirement.

Additionally, there would be no redundancy, violating the resiliency requirement.

C).4:

Four ports would meet the 100 Gbps throughput requirement but would lack redundancy, making the solution vulnerable to failures.

D).16:

Sixteen ports would exceed the required throughput and redundancy, resulting in unnecessary costs and complexity.

Key Points:

Throughput Calculation: Ensure the total bandwidth meets the 100 Gbps requirement.

Resiliency: Double the number of ports to provide redundant paths for high availability.

Optimization: Use the minimum number of ports that satisfy both throughput and resiliency requirements.

Reference: Pure Storage FlashArray Documentation: "Network Design and Configuration Best Practices" Pure Storage Whitepaper: "NVMe-TCP Connectivity and Performance Optimization" Pure Storage Knowledge Base: "Calculating Required Network Ports for FlashArray"

NEW QUESTION # 20

A company has two data centers that are 30 miles apart with a round trip latency of 4ms.

What Pure Storage software will allow the lowest RPO disaster recovery strategy between the two data centers?

- A. Pure1 Manage
- B. Purity ActiveCluster
- **C. Purity Snapshot Replication**
- D. Purity Snapshots

Answer: C

Explanation:

To achieve the lowest RPO (Recovery Point Objective) disaster recovery strategy between two data centers located 30 miles apart with a round-trip latency of 4ms, Purity Snapshot Replication is the best choice.

Here's why:

Analysis of Options:

A). Purity Snapshot Replication:

Snapshot Replication is an asynchronous replication method that periodically replicates snapshots of volumes to a remote FlashArray.

With a round-trip latency of 4ms, Snapshot Replication can achieve very low RPOs (typically seconds to minutes), making it suitable for disaster recovery in this scenario.

B). Purity ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two arrays.

While ActiveCluster offers zero RPO and zero RTO, it is typically limited to shorter distances due to latency constraints. At 30 miles and 4ms latency, ActiveCluster may still work but is less optimal compared to Snapshot Replication for disaster recovery.

C). Pure1 Manage:

Pure1 Manage is a cloud-based monitoring and management platform for Pure Storage arrays. It does not provide replication or disaster recovery capabilities.

D). Purity Snapshots:

Snapshots are point-in-time copies of data stored locally on the FlashArray. They do not provide replication to a remote site and are therefore unsuitable for disaster recovery.

Recommendation:

The correct answer is

A). Purity Snapshot Replication, as it provides the lowest RPO for disaster recovery over a 30-mile distance with 4ms latency.

Reference: Purity Snapshot Replication Documentation:

Purity Snapshot Replication

Explains how Snapshot Replication works and its use cases.

Purity ActiveCluster Documentation:

Purity ActiveCluster

Details the capabilities and limitations of ActiveCluster.

NEW QUESTION # 21

What is the return window as defined by the Love Your Storage Guarantee?

- A. 60 days
- B. 90 days
- C. 15 days
- **D. 30 days**

Answer: D

Explanation:

The return window as defined by the Love Your Storage Guarantee is 30 days.

Why This Matters:

Love Your Storage Guarantee:

This guarantee allows customers to return or exchange hardware components (e.g., controllers) within a specified return window if they do not meet their needs.

The 30-day return window ensures customers have sufficient time to evaluate the hardware and make adjustments as needed.

Why Not the Other Options?

A). 15 days:

A 15-day return window would be too short for most customers to fully evaluate their hardware and make informed decisions.

C). 60 days:

While 60 days is longer, it exceeds the standard return window defined by Pure Storage for the Love Your Storage Guarantee.

D). 90 days:

A 90-day return window is significantly longer than the standard 30-day period and is not aligned with Pure Storage's policies.

Key Points:

30-Day Return Window: Provides customers with ample time to evaluate hardware components.

Customer-Centric Approach: Reflects Pure Storage's commitment to ensuring customer satisfaction.

Policy Compliance: Ensures alignment with Pure Storage's official return policies.

Reference: Pure Storage Evergreen/Forever Documentation: "Love Your Storage Guarantee Terms and Conditions" Pure Storage Knowledge Base: "Understanding the Love Your Storage Return Policy"

NEW QUESTION # 22

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

Answer: C

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 # 23

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 # 24

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