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Exam : **FAAA_005**

Title : Pure Storage FlashArray Architect Associate

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Pure Storage FlashArray Architect Associate Sample Questions (Q12-Q17):

NEW QUESTION # 12
A customer has two data centers: one in North America and one in England. The customer wants to replicate their production data across data centers, with as low an RPO as possible.
What Pure Storage feature meets their requirements?

- A. ActiveCluster
- B. ActiveDR
- C. Asynchronous snapshot replication

Answer: B

Explanation:
The customer wants to replicate production data across two data centers (North America and England) with as low an RPO as possible. The best Pure Storage feature to meet this requirement 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., across continents).
It provides low RPOs, typically in the range of seconds to minutes, depending on network conditions and workload characteristics.
ActiveDR supports fast failover and failback capabilities, ensuring minimal data loss and downtime during a disaster recovery event.
Why Not the Other Options?
A). ActiveCluster:
ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO. However, it requires both sites to be within a low-latency range (typically <10 ms). Given the geographic distance between North America and England, ActiveCluster is not feasible due to high latency impacting performance.
C). Asynchronous snapshot replication:
Traditional asynchronous 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 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 # 13
What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

- A. Replacing a controller 10 module
- B. Upgrade Purity//FA code
- C. Moving from a SAS- to NVMe-based shelf
- D. Physically relocating an array

Answer: D

Explanation:
Among the listed options, physically relocating an array is the action most likely to cause a disruption to Pure FlashArray stateless controller operations or performance.
Why This Matters:

Physical Relocation:

Moving a FlashArray involves powering down the system, disconnecting cables, and transporting the hardware to a new location. This process inherently disrupts operations and performance until the array is reinstalled and brought back online.

Even with proper planning, physical relocation introduces downtime and potential risks (e.g., hardware damage during transport).

Why Not the Other Options?

A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.

C). Moving from a SAS- to NVMe-based shelf:

Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.

D). Upgrade Purity//FA code:

Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.

Key Points:

Physical Relocation: Causes unavoidable downtime and operational disruption.

Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.

Planning Required: Physical relocation requires careful planning to minimize risks and downtime.

Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

NEW QUESTION # 14

A customer has presented two workloads that need to be replicated. One is a highly transactional database workload and the other is a VM datastore with tier one applications.

The customer has the following requirements:

* The database workload is highly reliant on storage performance The VM datastore requires zero downtime.

* The customer has advised the two FlashArrays will be 20 miles apart and they are worried that this could impact their internal SLAs.

What replication strategies should be advised for these workloads?

- A. ActiveCluster should be used for both workloads.
- B. ActiveCluster should be used for the VM workloads and ActiveDR for the database workload.
- C. ActiveDR should be used for both workloads.
- D. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.

Answer: B

Explanation:

To address the customer's requirements, we need to evaluate the replication strategies offered by Pure Storage FlashArray: ActiveCluster and ActiveDR, and how they align with the specific needs of the two workloads.

Workload Analysis:

Transactional Database Workload:

This workload is highly reliant on storage performance. Any replication strategy must ensure minimal latency and high availability to avoid impacting transactional throughput and response times.

The database workload typically benefits from synchronous replication to maintain consistency and performance across sites.

VM Datastore (Tier 1 Applications):

This workload requires zero downtime, meaning it must remain accessible even in the event of a site failure. High availability and seamless failover are critical.

The VM datastore can tolerate some level of asynchronous replication as long as it does not compromise availability or recovery objectives.

Replication Strategies:

ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two FlashArrays. It ensures zero RPO (Recovery Point Objective) and zero RTO (Recovery Time Objective), making it ideal for workloads requiring continuous availability and zero downtime.

ActiveCluster is well-suited for the VM datastore workload because it guarantees seamless failover and high availability, meeting the zero-downtime requirement.

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides near-zero RPO (typically

seconds to minutes) and allows for non-disruptive testing of failover scenarios.

ActiveDR is better suited for the transactional database workload because it minimizes the impact of latency over the 20-mile distance while still maintaining high performance and consistency.

Distance Consideration:

The 20-mile distance between the two FlashArrays introduces latency concerns. Synchronous replication (ActiveCluster) can handle this distance effectively for the VM datastore workload due to its tolerance for slightly higher latency. However, for the transactional database workload, the latency could degrade performance, making ActiveDR a better choice.

Final Recommendation:

Use ActiveCluster for the VM datastore workload to achieve zero downtime and high availability.

Use ActiveDR for the transactional database workload to balance performance and disaster recovery needs over the 20-mile distance.

Reference: Pure Storage ActiveCluster Documentation:

Explains the synchronous replication capabilities and use cases for ActiveCluster.

Pure Storage ActiveCluster

Pure Storage ActiveDR Documentation:

Details the asynchronous replication features and disaster recovery use cases for ActiveDR.

Pure Storage ActiveDR

Pure Storage Best Practices for Replication:

Provides guidance on selecting the appropriate replication strategy based on workload requirements and distance considerations.

Pure Storage Replication Best Practices

Pure Storage Architectural Guides:

Covers architectural considerations for deploying ActiveCluster and ActiveDR in multi-site environments.

Pure Storage Architectural Guides

This approach ensures that both workloads meet their respective SLAs while addressing the customer's concerns about distance and performance.

NEW QUESTION # 15
What is the return window as defined by the Love Your Storage Guarantee?

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

Answer: A

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 # 16

A System Administrator has a FlashArray//X70R3. They need to add a backup element as part of their data protection strategy. They have the following requirements:
* The solution should be offsite
* Cost needs to be kept as low as possible
* The backup needs to be stored in a different location from their current FlashArray
* Restore times are not a concern
Which solution should the SE recommend to the System Administrator?

- A. ActiveCluster to a FlashArray//C60
- B. ActiveDR to a FlashArray//C60
- C. CloudSnap to a public cloud provider

Answer: C

Explanation:
The System Administrator requires an offsite backup solution that is cost-effective, stores data in a different location from the current FlashArray, and does not prioritize restore times. The best solution to recommend is CloudSnap to a public cloud provider.
Why This Matters:
CloudSnap:
CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.
It is highly cost-effective because customers only pay for the cloud storage they use, and it eliminates the need for additional on-premises hardware.
Since restore times are not a concern, CloudSnap's slower restore process compared to on-premises solutions is acceptable.
Why Not the Other Options?
A). ActiveCluster to a FlashArray//C60:
ActiveCluster provides synchronous replication for high availability but does not meet the requirement for an offsite backup solution. Additionally, it is more expensive than CloudSnap.
B). ActiveDR to a FlashArray//C60:
ActiveDR provides asynchronous replication for disaster recovery but requires additional hardware (FlashArray//C60), which increases costs. It is less cost-effective than CloudSnap for backup purposes.
Key Points:
Cost Efficiency: CloudSnap leverages cloud storage, minimizing upfront and ongoing costs. Offsite Storage: Ensures backups are stored in a different location from the primary FlashArray. Restore Times: CloudSnap's slower restore process is acceptable given the customer's requirements.
Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Backup Solution for Your Workload"

NEW QUESTION # 17

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