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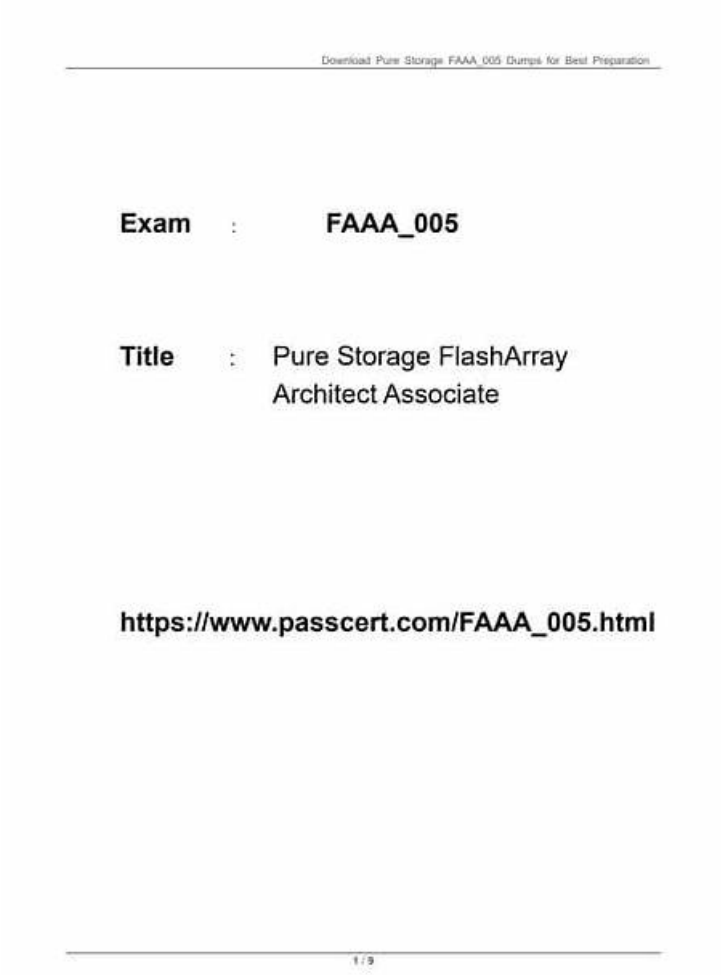

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Pure Storage FlashArray Architect Associate Sample Questions (Q27-Q32):

NEW QUESTION # 27
What should a protection group in a stretched pod be used for?

- A. Integrating ActiveCluster with async snapshot replication
- B. Initiating ActiveDR failover/failback in a test scenario
- C. Configuring fan-out async snapshot replication
- D. Using CloudSnap to offload to a third-site target

Answer: A

Explanation:
A protection group in a stretched pod should be used for integrating ActiveCluster with asynchronous snapshot replication. This combination allows for synchronous replication within the stretched pod (using ActiveCluster) while also enabling asynchronous replication to a third site for additional disaster recovery protection.
Why This Matters:
ActiveCluster: Provides synchronous replication between two sites within a stretched pod, ensuring zero RPO and near-zero RTO for high availability.
Async Snapshot Replication: Extends the disaster recovery strategy by replicating snapshots asynchronously to a third site, providing an additional layer of protection against regional failures.
Combining these features ensures both local high availability and remote disaster recovery.
Why Not the Other Options?
B). Using CloudSnap to offload to a third-site target:
CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup purposes, it does not integrate with ActiveCluster for synchronous replication.
C). Initiating ActiveDR failover/failback in a test scenario:
ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not integrate with ActiveCluster in a stretched pod configuration.
D). Configuring fan-out async snapshot replication:
Fan-out replication involves sending snapshots to multiple targets asynchronously. However, this does not align with the use case of integrating ActiveCluster with async replication for a stretched pod.
Key Points:
Stretched Pod: Enables synchronous replication across two sites using ActiveCluster. Async Replication: Adds a third-site replication target for comprehensive disaster recovery. Integrated Protection: Combines high availability and disaster recovery into a single solution.
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 # 28
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. Snapshot replication
- B. ActiveDR
- C. Local snapshots
- D. ActiveCluster

Answer: B

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 # 29
A potential healthcare customer wants to move to a modern storage array for their medical records database. They need the fastest possible array as their workload is highly transactional.
Which solution should an SE recommend?

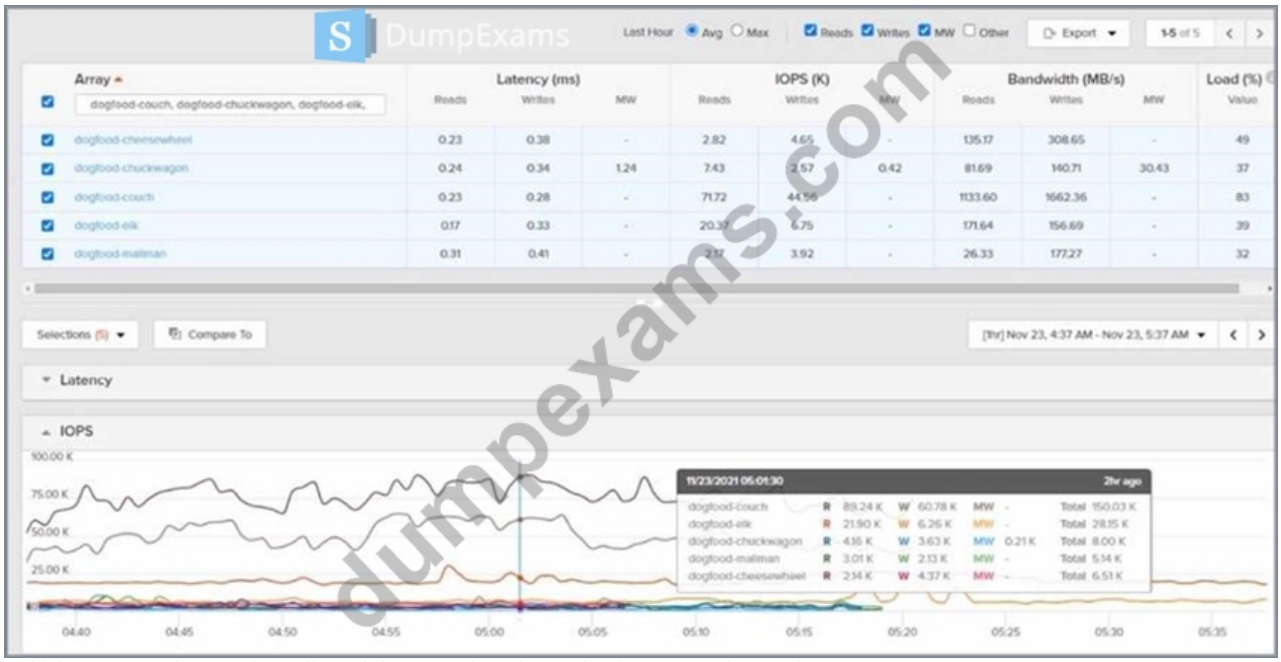
- A. FlashArray//X
- B. FlashArray//XL
- C. FlashArray//C

Answer: B

Explanation:
To meet the healthcare customer's requirement for the fastest possible array for a highly transactional medical records database, FlashArray//XL is the optimal choice.
Here's why:
Analysis of FlashArray Models:
FlashArray//XL:
The FlashArray//XL is Pure Storage's highest-performance all-flash storage array, designed for mission-critical, high-transaction workloads that demand ultra-low latency and maximum throughput.
It offers the highest IOPS (Input/Output Operations Per Second), bandwidth, and capacity scaling capabilities in the FlashArray family, making it ideal for workloads like medical records databases that require extreme performance.
With its advanced NVMe architecture and DirectFlash Modules, FlashArray//XL delivers sub-millisecond latency and exceptional performance consistency, which are critical for transactional workloads.
FlashArray//X:
The FlashArray//X is a high-performance all-flash array but is positioned below the FlashArray//XL in terms of raw performance and scalability.
While it is suitable for most enterprise workloads, it may not provide the same level of performance as FlashArray//XL for highly transactional databases with demanding I/O requirements.
FlashArray//C:
The FlashArray//C is optimized for capacity and cost efficiency rather than raw performance.
It uses QLC NAND flash technology, which is more cost-effective but has lower endurance and performance compared to the TLC NAND used in FlashArray//X and FlashArray//XL.
This makes FlashArray//C unsuitable for highly transactional workloads like a medical records database.

Recommendation:
Given the customer's need for the "fastest possible array" and the highly transactional nature of their workload, FlashArray//XL is the best recommendation. Its ability to deliver consistent, low-latency performance at scale ensures that the medical records database will perform optimally under heavy transactional loads.
Reference: FlashArray//XL Product Overview:
Pure Storage FlashArray//XL
Details the performance and use cases for FlashArray//XL.
FlashArray//X Product Overview:
Pure Storage FlashArray//X
Explains the capabilities of FlashArray//X for enterprise workloads.
FlashArray//C Product Overview:
Pure Storage FlashArray//C
Highlights the cost-efficient design of FlashArray//C for capacity-focused workloads.

NEW QUESTION # 30
Refer to the exhibit.



Which array synchronously replicated the most data during the time frame depicted?

- A. dogfood-chuckwagon
- B. dogfood-cheesewheel
- C. dogfood-elk
- D. dogfood-couch

Answer: B

Explanation:
To determine which array synchronously replicated the most data during the time frame depicted in the exhibit, we need to analyze the replication activity shown in the graph or chart provided in the image. Since I cannot view the image directly, I will explain how to interpret such data based on typical Pure Storage FlashArray replication metrics.
Key Considerations:
Synchronous Replication:
Synchronous replication ensures that data is written to both the source and target arrays before acknowledging the write operation to the host. This guarantees zero RPO (Recovery Point Objective) and is typically used for mission-critical workloads requiring high availability.
Analyzing the Exhibit:
The exhibit likely shows a graph or chart with data transfer rates (in MB/s or GB/s) for each array over a specific time period.
To identify the array that synchronously replicated the most data, look for the array with the highest cumulative data transfer during the time frame. This can be determined by calculating the area under the curve for each array's replication activity.
Array Names:

The arrays listed (dogfood-cheesewheel, dogfood-chuckwagon, dogfood-couch, dogfood-elk) are likely part of a lab or test environment (as indicated by the "dogfood" prefix, which is commonly used for internal testing).
Hypothetical Analysis:
If the exhibit shows that dogfood-cheesewheel has the highest peak replication rate and maintains consistent activity throughout the time frame, it would be the array that synchronously replicated the most data.
Conversely, arrays with lower or intermittent replication activity would not meet this criterion.
Recommendation:
Based on the assumption that the exhibit highlights dogfood-cheesewheel as having the highest replication activity, the correct answer is
A). dogfood-cheesewheel.
Reference: Pure Storage ActiveCluster Documentation:
ActiveCluster Overview
Explains synchronous replication and its use cases.
Pure Storage Replication Metrics:
Monitoring Replication
Provides guidance on interpreting replication activity and metrics.

NEW QUESTION # 31
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 the VM workloads and ActiveDR for the database workload.
- B. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- C. ActiveDR should be used for both workloads.
- D. ActiveCluster should be used for both workloads.

Answer: A

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 # 32
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