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Pure Storage FAAA_004 Exam Syllabus Topics:

Topic	Details
Topic 1	• Qualify, Sell, and Architect: This section of the exam assesses the skills of Technical Sales Engineers and covers identifying solutions based on customer requirements, sizing solutions based on customer needs using tools like Pure FlashArray Sizer, identifying market trends and opportunities (e.g., Ransomware and Portworx Solution Centers), demonstrating an understanding of FlashArray use cases, and demonstrating an understanding of unified storage on FlashArray37. A key skill measured is "identifying solutions based on customer requirements.
Topic 2	• Array Monitoring and Architecture: This section measures the skills of Storage Architects and covers explaining FlashArray's high availability architecture, defining FlashArray features (e.g., ActiveCluster, ActiveDR), explaining data reduction methods, identifying components of FlashArrays, and analyzing performance metrics and capacity usage using Pure1 Manage3. A crucial skill evaluated is "analyzing performance metrics".

Topic 3	• Subscriptions and DX: This section evaluates the competencies of Account Managers regarding Pure Storage's subscription services and digital experience. It focuses on identifying the benefits of Pure's Evergreen program (Evergreen • • One, • • Forever, • • Flex) and Love Your Storage Guarantee, as well as determining future capacity, performance, and upgrade requirements through workload and hardware simulations.

** FAAA_004 Valid Test Notes **

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Pure Storage FlashArray Architect Associate Sample Questions (Q60-Q65):

NEW QUESTION # 60
A controller receives a write request.
If it generates a hash that is already recorded in the hash table, what happens next?

- **A. The new block is compared to the existing block to confirm they are duplicates.**
- B. Deep level compression is then applied to the newly hashed block.
- C. Purity//FA will expand the block to see if it can deduplicate a larger dataset.
- D. The next incoming block is then hashed to see if it can be deduplicated.

Answer: A

Explanation:
When a controller generates a hash for an incoming write request and finds that the hash already exists in the hash table, the next step is to compare the new block to the existing block to confirm they are duplicates .
Why This Matters:
Hash Collision Handling:
Hash functions can sometimes produce the same hash value for different data blocks (a "hash collision"). To ensure data integrity, the system must verify that the new block is identical to the existing block before deduplication occurs.
Data Integrity:
Comparing the blocks ensures that only true duplicates are deduplicated, preventing data corruption or loss due to hash collisions.
Why Not the Other Options?
A . The next incoming block is then hashed to see if it can be deduplicated:
Hashing the next block is unnecessary at this stage. The focus is on verifying whether the current block is a duplicate.
B . Deep level compression is then applied to the newly hashed block:
Compression is a separate process from deduplication and does not occur immediately after hashing.
D . Purity//FA will expand the block to see if it can deduplicate a larger dataset:
Expanding the block is not part of the deduplication process. Deduplication operates on individual blocks, not larger datasets.
Key Points:
Hash Table Lookup: Identifies potential duplicates based on hash values.
Block Comparison: Confirms that the new block matches the existing block to ensure data integrity.
Deduplication: Eliminates redundant data to optimize storage efficiency.
Reference:
Pure Storage FlashArray Documentation: "Understanding Deduplication in Purity//FA" Pure Storage Whitepaper: "Data Reduction Techniques in FlashArray" Pure Storage Knowledge Base: "How Deduplication Works in FlashArray"

NEW QUESTION # 61
Which two features are specific to the Evergreen//Forever Program and are NOT included with Evergreen//Foundation? (Choose two.)

- **A. Controller Upgrades**
- B. Pro Deployment
- **C. Upgrade Always**
- D. Capacity Consolidation

Answer: A,C

Explanation:
The Evergreen//Forever program is Pure Storage's premium subscription offering, providing continuous upgrades and enhancements to ensure customers always have access to the latest technology. In contrast, Evergreen//Foundation is a lower-tier subscription with limited benefits. Here's an analysis of the features:
Correct Features:
A . Controller Upgrades :
Controller upgrades are a key feature of Evergreen//Forever, allowing customers to upgrade their FlashArray controllers non-disruptively to newer generations.
This feature is not included in Evergreen//Foundation.
D . Upgrade Always :
"Upgrade Always" ensures that customers can continuously upgrade their hardware and software without additional costs.
This is a hallmark of Evergreen//Forever and is not available in Evergreen//Foundation.
Incorrect Features:
B . Pro Deployment :
Pro Deployment services are available across all Evergreen tiers, including Evergreen//Foundation.
Therefore, this is not specific to Evergreen//Forever.
C . Capacity Consolidation :
Capacity consolidation is a general benefit of Pure Storage arrays and is not exclusive to Evergreen//Forever.
It is also available in Evergreen//Foundation.
Final Recommendation:
The correct answers are A. Controller Upgrades and D. Upgrade Always , as these are specific to Evergreen//Forever and not included in Evergreen//Foundation.
Reference:
Evergreen//Forever Program Overview :
Evergreen//Forever
Explains the benefits and features of Evergreen//Forever.
Evergreen Subscription Tiers Comparison :
Evergreen Tiers
Compares the features of Evergreen//Forever and Evergreen//Foundation.

NEW QUESTION # 62
Refer to the exhibit.

What does the depicted value 77.24 T represent?

- A. Total useable space
- **B. The guaranteed capacity**
- C. Total deduplicated space
- D. Total raw space on the array

Answer: B

Explanation:
The value 77.24 T in the context of Pure Storage FlashArray represents C . The guaranteed capacity.
Detailed Explanation:
Guaranteed Capacity is a feature of Pure Storage's Evergreen subscription model. It reflects the effective capacity Pure Storage commits to the customer based on their typical data reduction ratios (deduplication, compression, and pattern removal). This value is calculated as:
Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF)Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF) Pure typically guarantees a minimum DRF (e.g., 3:1 for many workloads), but actual savings often exceed this.
Why Not the Other Options?
A . Total usable space: This would include the total logical capacity after data reduction and overheads (RAID-HD, metadata), which is usually larger than the guaranteed capacity.
B . Total raw space: This refers to the physical capacity of drives (e.g., 100TB raw). The value shown (77.24T) is smaller than raw, so this is incorrect.
D . Total deduplicated space: Pure Storage combines dedupe, compression, and pattern removal into a single "data reduction" metric. Deduplication alone is not isolated in capacity reporting.
Official Reference:
Pure Storage documentation explicitly defines Guaranteed Capacity as the "logical capacity Pure commits to deliver, factoring in data reduction." This aligns with the Evergreen//Forever subscription model, where customers pay for usable capacity, not raw storage.

NEW QUESTION # 63

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

Answer: C

NEW QUESTION # 64

Which Pure Storage offering allows customers to own their array hardware while paying for storage on a subscription basis?

- A. Evergreen//Foundation
- B. Evergreen//One
- C. Evergreen//Flex
- D. Cloud Block Store

Answer: C

Explanation:
The Evergreen//Flex offering allows customers to own their array hardware while paying for storage on a subscription basis .
Why This Matters:
Evergreen//Flex:
This model combines the benefits of ownership with the flexibility of a subscription. Customers own the hardware outright but pay for storage capacity and services (e.g., maintenance, upgrades) on a subscription basis.
It provides predictable costs and access to Pure Storage's Evergreen architecture, ensuring long-term value and future-proofing.
Why Not the Other Options?
A . Evergreen//Foundation:
Evergreen//Foundation is a traditional purchase model where customers buy the hardware and software upfront. It does not involve a subscription-based payment structure.
B . Evergreen//One:
Evergreen//One is a fully managed subscription service where customers do not own the hardware. Instead, they lease the equipment and pay for storage as a service.
D . Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds (e.g., AWS, Azure). It does not involve owning on-premises hardware.

Key Points:

Ownership: Customers retain ownership of the hardware.

Subscription Flexibility: Pay for storage and services on a subscription basis.

Predictable Costs: Aligns with budgeting and financial planning goals.

Reference:

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

NEW QUESTION # 65

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