FAAA_004 Exam with Accurate Pure Storage FlashArray Architect Associate PDF Questions

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Pure Storage FAAA_004 Exam Syllabus Topics:

Topic	Details
Topic 1	- 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.
Topic 2	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 3	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".

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Pure Storage FlashArray Architect Associate Sample Questions (Q17-Q22):

NEW QUESTION # 17
Which two features are specific to the Evergreen//Forever Program and are NOT included with Evergreen//Foundation? (Choose two.)

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

Answer: A,B

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 # 18
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. Purity Snapshots
- B. Purity Snapshot Replication
- C. Pure1 Manage
- D. Purity ActiveCluster

Answer: B

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 # 19
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 # 20

What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

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

Answer: A

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 # 21

Which FlashArray feature best protects local snapshots from ransomware attacks?

- A. CloudSnap
- B. SafeMode
- C. ActiveCluster

Answer: B

Explanation:

The FlashArray feature that best protects local snapshots from ransomware attacks is SafeMode .

Why This Matters:

SafeMode Snapshots:

SafeMode is a security feature that creates immutable snapshots, meaning they cannot be deleted, modified, or encrypted by malicious actors, including ransomware.

These snapshots are locked for a user-defined retention period, ensuring data integrity and recoverability even in the event of a ransomware attack.

Why Not the Other Options?

A . CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it provides an offsite backup solution, it does not inherently protect against ransomware attacks targeting local snapshots.

C . ActiveCluster:

ActiveCluster provides synchronous replication between two sites for high availability. While it ensures data redundancy, it does not protect against ransomware attacks targeting snapshots.

Key Points:

SafeMode: Creates immutable snapshots to protect against ransomware attacks.

Data Integrity: Ensures snapshots remain unaltered during the retention period.

Ransomware Protection: A critical feature for safeguarding data in modern IT environments.

Reference:

Pure Storage FlashArray Documentation: "SafeMode Snapshots for Ransomware Protection" Pure Storage Whitepaper: "Protecting Data Against Ransomware with FlashArray" Pure Storage Knowledge Base: "Best Practices for Using SafeMode Snapshots"

NEW QUESTION # 22

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