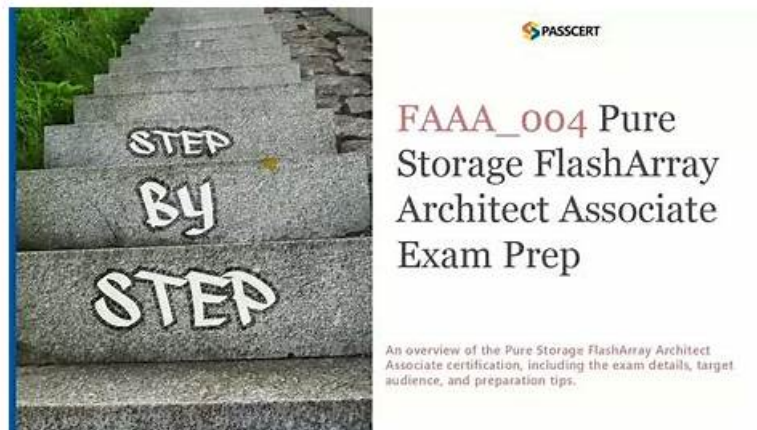


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Pure Storage FAAA_004 Exam Syllabus Topics:

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	• 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 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 (Q49-Q54):

NEW QUESTION # 49

Which two statements describe Pure Storage's Right-Size Guarantee? (Select two.)

- A. The customer must complete a 6-month proof of concept.
- B. Evergreen/Foundation subscriptions are not eligible for guarantee.
- C. The Workload Mix cannot change by more than 20%.
- D. Capacity upgrades will extend the Right-Size Guarantee.

Answer: B,C

Explanation:

Pure Storage's Right-Size Guarantee ensures that customers can accurately predict their storage needs based on their workload characteristics. Here's an analysis of the statements:

Correct Statements:

B . Evergreen/Foundation subscriptions are not eligible for guarantee :

The Right-Size Guarantee applies only to specific subscription tiers, such as Evergreen/One and Evergreen/Forever.

Evergreen/Foundation, which is a lower-tier subscription, is not eligible for this guarantee.

C . The Workload Mix cannot change by more than 20% :

To maintain the accuracy of the Right-Size Guarantee, the customer's workload mix (e.g., database, VDI, file shares) must remain relatively stable. A significant change in the workload mix (greater than 20%) could invalidate the guarantee, as it affects data reduction ratios and capacity predictions.

Incorrect Statements:

A . The customer must complete a 6-month proof of concept :

A proof of concept is not required to qualify for the Right-Size Guarantee. Instead, the guarantee is based on the initial assessment of the workload and adherence to the terms.

D . Capacity upgrades will extend the Right-Size Guarantee :

Capacity upgrades do not automatically extend the Right-Size Guarantee. The guarantee is tied to the initial assessment and workload stability, not hardware upgrades.

Final Recommendation:

The correct answers are B. Evergreen/Foundation subscriptions are not eligible for guarantee and C. The Workload Mix cannot change by more than 20% .

Reference:

Pure Storage Right-Size Guarantee Overview :

Pure Storage Right-Size Guarantee

Details the terms and conditions of the Right-Size Guarantee.

Evergreen Subscription Tiers :

Pure Storage Evergreen Subscriptions

Explains the differences between Evergreen subscription tiers.

NEW QUESTION # 50

What allows for array upgrades without any degradation in performance?

- A. Non-disruptive upgrades
- B. Right-Size Guarantee
- C. Protection groups
- D. ActiveCluster

Answer: A

Explanation:

The feature that allows for array upgrades without any degradation in performance is non-disruptive upgrades .

Why This Matters:

Non-Disruptive Upgrades:

Pure Storage FlashArray supports rolling upgrades, enabling software updates (e.g., Purity//FA) and hardware upgrades (e.g., controllers) without interrupting operations.

During a controller upgrade, the active/active architecture ensures that one controller continues handling I/O operations while the other is upgraded, maintaining consistent performance.

Why Not the Other Options?

A . ActiveCluster:

ActiveCluster provides synchronous replication for high availability but does not directly relate to non-disruptive upgrades.

C . Right-Size Guarantee:

The Right-Size Guarantee ensures customers receive the expected effective capacity based on their workload's data reduction profile. It is unrelated to upgrades or performance.

D . Protection groups:

Protection groups are used for replication and snapshot management but do not impact the ability to perform non-disruptive upgrades.

Key Points:

Non-Disruptive Upgrades: Ensure seamless updates without impacting performance or availability.

Active/Active Architecture: Enables continuous I/O processing during upgrades.

Customer Experience: Minimizes downtime and disruption during maintenance or upgrades.

Reference:

Pure Storage FlashArray Documentation: "Non-Disruptive Operations with FlashArray" Pure Storage Whitepaper: "Evergreen Architecture and Non-Disruptive Upgrades" Pure Storage Knowledge Base: "Performing Non-Disruptive Upgrades on FlashArray"

NEW QUESTION # 51

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:

$$\text{Number of Ports} = \frac{\text{Required Throughput}}{\text{Per-Port Bandwidth}} = \frac{100}{25} = 4 \text{ ports.}$$

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 # 52

A customer notices a low data reduction ratio upon initial data ingest.

Which Purity data reduction technique will help increase the data reduction ratio over time?

- A. Capacity consolidation and cloning
- B. RAID-HA protection and AES-256 encryption
- C. Deep deduplication and deep compression
- D. Snapshot cleanup and garbage collection

Answer: C

Explanation:

If a customer notices a low data reduction ratio upon initial data ingest, the Purity data reduction technique that will help increase the data reduction ratio over time is deep deduplication and deep compression .

Why This Matters:

Deep Deduplication and Deep Compression:

Purity//FA (the operating system for FlashArray) applies deduplication to eliminate duplicate data blocks and compression to reduce the size of unique data blocks.

These techniques are applied continuously as new data is written to the array. Over time, as more data is ingested and patterns emerge, the effectiveness of deduplication and compression increases, leading to a higher data reduction ratio.

For example, deduplication becomes more effective as the dataset grows and more duplicates are identified. Similarly, compression benefits from identifying repetitive patterns in larger datasets.

Why Not the Other Options?

B . Snapshot cleanup and garbage collection:

Snapshot cleanup and garbage collection are maintenance processes that reclaim space from deleted snapshots or unused data blocks. While these processes free up space, they do not directly contribute to increasing the data reduction ratio.

C . Capacity consolidation and cloning:

Capacity consolidation refers to combining workloads onto fewer arrays, and cloning creates space-efficient copies of volumes.

While cloning leverages data reduction techniques, it does not inherently improve the overall data reduction ratio for existing data.

D . RAID-HA protection and AES-256 encryption:

RAID-HA (high availability) ensures data redundancy, and AES-256 encryption secures data. Neither of these features impacts the data reduction ratio.

Key Points:

Deep Deduplication and Compression: Continuously optimize storage efficiency as more data is ingested.

Data Reduction Ratio: Improves over time as deduplication identifies duplicates and compression reduces unique data.

Purity//FA Automation: These techniques are fully automated and do not require manual intervention.

Reference:

Pure Storage FlashArray Documentation: "Understanding Data Reduction in Purity//FA" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "How Deduplication and Compression Work in FlashArray"

NEW QUESTION # 53

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. Capacity Consolidation

- D. Pro Deployment

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 # 54

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