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Pure Storage FlashArray Architect Associate Sample Questions (Q59-Q64):

NEW QUESTION # 59

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

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

Answer: D

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 # 60

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

Answer: A

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 # 61

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. ActiveDR
- B. Snapshot replication
- C. Local snapshots
- D. ActiveCluster

Answer: A

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 fallback 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 fallback 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/fallback.

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 # 62

What metric is used to compute billing when customers leverage the Evergreen//One offering?

- A. Raw capacity consumed
- **B. Effective capacity consumed**
- C. Total capacity installed
- D. Capacity provisioned to hosts

Answer: B

Explanation:

When customers leverage the Evergreen//One offering, billing is based on the effective capacity consumed.

Why This Matters:

Effective Capacity Consumed:

Evergreen//One is a subscription-based model where customers pay for the logical capacity they consume after applying data reduction techniques like deduplication, compression, and pattern removal.

This ensures customers only pay for the actual usable capacity they need, aligning with Pure Storage's commitment to delivering predictable and cost-effective storage solutions.

Why Not the Other Options?

A). Total capacity installed:

Billing is not based on the total raw capacity installed in the array, as this does not reflect the actual usable capacity after data reduction.

B). Raw capacity consumed:

Raw capacity refers to the physical storage used before applying data reduction. Evergreen//One focuses on effective capacity, not raw capacity.

D). Capacity provisioned to hosts:

Provisioned capacity refers to the logical space allocated to hosts, which may include unused or overprovisioned space. Billing is based on the actual consumed capacity.

Key Points:

Effective Capacity: Reflects the logical capacity consumed after data reduction.

Subscription Model: Aligns with Evergreen//One's focus on predictable and flexible billing.

Data Reduction: Deduplication, compression, and pattern removal optimize storage efficiency, reducing costs for customers.

Reference: Pure Storage Evergreen//One Documentation: "Understanding Billing Metrics" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen//One Billing Works"

NEW QUESTION # 63

What is the minimally required FlashArray model that includes the DirectCompress Accelerator (DCA)?

- **A. FlashArray//X70 R4**
- B. FlashArray//X70 R3
- C. FlashArray//XL130
- D. FlashArray//X90 R4

Answer: A

Explanation:

The DirectCompress Accelerator (DCA) is a hardware component introduced in certain FlashArray models to enhance inline data compression performance. To determine the minimally required FlashArray model that includes DCA, let's analyze the options:

Analysis of Options:

A). FlashArray//X70 R4:

The FlashArray//X70 R4 was the first model to include the DirectCompress Accelerator (DCA). This makes it the minimally required model for DCA support.

B). FlashArray//X70 R3:

The FlashArray//X70 R3 does not include the DCA. It relies on software-based compression, which is less efficient than hardware-accelerated compression.

C). FlashArray//X90 R4:

The FlashArray//X90 R4 includes DCA but is a higher-tier model than the X70 R4. While it supports DCA, it is not the minimal requirement.

D). FlashArray//XL130:

The FlashArray//XL130 is a high-performance model that includes DCA, but it is overkill for this requirement and not the minimal model.

Recommendation:

The correct answer is

A). FlashArray//X70 R4, as it is the first model to include the DirectCompress Accelerator (DCA).

Reference: FlashArray Hardware Specifications:

FlashArray Models

Details the features and capabilities of each FlashArray model.

DirectCompress Accelerator Overview:

DirectCompress Accelerator

Explains the benefits and availability of DCA.

NEW QUESTION # 64

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