#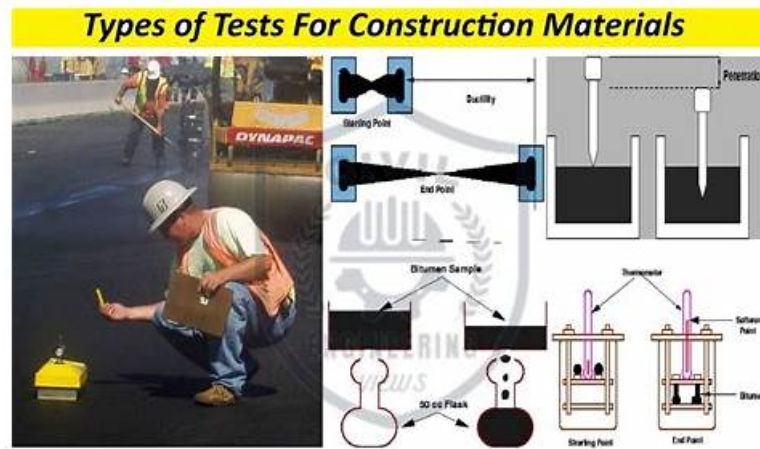 Pass-Sure FAAA_005 New Test Materials & Leader in Certification Exams Materials & Trusted Reliable FAAA_005 Braindumps Questions

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Pure Storage FlashArray Architect Associate Sample Questions (Q18-Q23):

NEW QUESTION # 18
What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

- A. NVRAM modules in both controllers
- B. Common controller chassis for both models
- C. Re-use of existing HBAs to prevent WWN changes
- D. InfiniBand connectivity between controllers

Answer: B

Explanation:
The architectural design that simplifies controller upgrades from FlashArray//XR2 to //XR3 is the use of a common controller chassis

for both models. This design allows customers to upgrade their controllers without replacing the entire array chassis, minimizing downtime and complexity during the upgrade process.

Why This Matters:

The common controller chassis ensures that the physical infrastructure (e.g., drive shelves, power supplies, and other components) remains unchanged during the upgrade. Only the controllers themselves need to be swapped out, which significantly reduces the time and effort required for the upgrade.

This approach also eliminates the need for re-cabling or reconfiguring the array, as the chassis and its connections remain consistent between the two models.

Why Not the Other Options?

B). InfiniBand connectivity between controllers: While InfiniBand is used for high-speed communication between controllers in FlashArray systems, it is not directly related to simplifying controller upgrades. It is a feature of the architecture but does not address the ease of upgrading between models.

C). NVRAM modules in both controllers: NVRAM (Non-Volatile RAM) is used to ensure data integrity during power loss, but it is not a factor in simplifying controller upgrades. Both XR2 and XR3 models include NVRAM, so this is not unique to the upgrade process.

D). Re-use of existing HBAs to prevent WWN changes: While reusing HBAs can help avoid changes to World Wide Names (WWNs), this is not a key factor in simplifying the upgrade process. The common controller chassis is the primary design feature that streamlines the upgrade.

Key Points:

Common Controller Chassis: Enables seamless upgrades by allowing the replacement of controllers without changing the rest of the array infrastructure.

Minimized Downtime: Reduces the time and complexity of upgrades, ensuring minimal disruption to operations.

Consistency Across Models: Ensures compatibility and continuity between different generations of FlashArray controllers.

Reference: Pure Storage FlashArray//X Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Evergreen Architecture and Controller Upgrades" Pure Storage Knowledge Base: "Upgrading FlashArray Controllers Without Downtime"

NEW QUESTION # 19

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. ActiveCluster should be used for both workloads.
- C. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- D. ActiveDR 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 # 20

Refer to the exhibit.

What does the depicted value 77.24 T represent?

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

Answer: C

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=Physi cal 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 # 21

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

Answer: A

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 # 22

After meeting with a potential customer, an SE confirmed the following details:
* The customer's current workload is 50 TB
* The workload has an expected DRR of 4:1
* The customer's data has predictable growth rate of 25% per year
* A 20% headroom for any unexpected workloads that may occur in the future When sizing this solution, the SE needs to make sure

that the customer will have enough capacity to last 3 years.
Which raw capacity will meet these requirements?

- A. 56 TB
- B. 30 TB
- C. 300 TB
- D. 225 TB

Answer: D

Explanation:
To determine the raw capacity required to meet the customer's needs for 3 years, we need to account for the current workload, data reduction ratio (DRR), growth rate, and headroom.
Step-by-Step Calculation:
Current Logical Workload:
The customer's current workload is 50 TB.
Expected Growth Over 3 Years:
The workload grows at a predictable rate of 25% per year.
After 3 years, the logical workload will be:
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NEW QUESTION # 23

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