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Pure Storage FlashArray Architect Associate Sample Questions (Q44-Q49):

NEW QUESTION # 44
A customer has a requirement for 450 TB of block storage to support their tier2 environment where latency is not a concern. The workload is expected to achieve a 4-to-1 data reduction.
Which array and capacity configuration is the minimum required to meet their needs?

- A. FlashArray//C60R3 878 TB
- B. FlashArray//X70R3 228 TB
- C. FlashArray//C40R3 247 TB
- D. FlashArray//C60R3 366 TB

Answer: C

Explanation:
To meet the customer's requirement for 450 TB of block storage with a 4:1 data reduction ratio, we need to calculate the effective usable capacity required and select the appropriate array configuration.
Step-by-Step Calculation:
Effective Usable Capacity Needed:

The workload requires 450 TB of logical storage.
With a 4:1 data reduction ratio, the physical storage required is:
Array Selection:
The selected array must provide at least 112.5 TB of usable capacity after accounting for overhead and RAID protection.
Let's evaluate the options:
A). FlashArray//C40R3 247 TB:
The FlashArray//C40R3 provides 247 TB of raw capacity. After accounting for overhead (typically ~20%), the usable capacity is approximately:Usable Capacity=247TB×0.8=197.6TB.
This exceeds the required 112.5 TB, making it a valid option.
B). FlashArray//C60R3 878 TB:
The FlashArray//C60R3 provides 878 TB of raw capacity, which is significantly larger than needed.
While it meets the requirement, it is not the minimum configuration.
C). FlashArray//X70R3 228 TB:
The FlashArray//X70R3 provides 228 TB of raw capacity. After overhead, the usable capacity is approximately:Usable Capacity=228TB×0.8=182.4TB.
While this also meets the requirement, it is more expensive than the C40R3.
D). FlashArray//C60R3 366 TB:
The FlashArray//C60R3 with 366 TB of raw capacity is overkill for this requirement and not cost-effective.
Recommendation:
The FlashArray//C40R3 247 TB provides the minimum required usable capacity while meeting the customer's needs.
Final Recommendation:
The correct answer is
A). FlashArray//C40R3 247 TB.
Reference: FlashArray//C Series Product Overview:
FlashArray//C Series
Details the capacity and use cases for FlashArray//C models.
Capacity Planning Guide:
Pure Storage Capacity Planning
Provides guidance on calculating usable capacity based on data reduction ratios.

NEW QUESTION # 45
What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

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

Answer: A

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 # 46
Which two statements describe Pure Storage's Right-Size Guarantee? (Select two.)

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

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 # 47
What does Pure Storage's Right-Size Guarantee promise?

- A. The customer's Total Efficiency Ratio
- B. The performance of the FlashArray model
- C. The effective capacity of the FlashArray
- D. The Data Reduction Rate by workload

Answer: C

Explanation:

Pure Storage's Right-Size Guarantee promises the effective capacity of the FlashArray, ensuring that customers receive the logical capacity they expect based on their workload's data reduction profile.
Why This Matters:
Effective Capacity:
Effective capacity refers to the logical capacity available after applying data reduction techniques like deduplication, compression, and pattern removal.
The Right-Size Guarantee ensures that customers achieve the expected effective capacity for their workloads, aligning with Pure Storage's commitment to delivering predictable and reliable storage solutions.
Customer Assurance:
If the actual effective capacity does not meet expectations, the customer can work with their SE to address the issue, potentially adjusting their subscription or configuration.
Why Not the Other Options?
A). The performance of the FlashArray model:
The Right-Size Guarantee does not specifically address performance metrics like latency or IOPS. It focuses on capacity-related assurances.
C). The Data Reduction Rate by workload:
While data reduction contributes to effective capacity, the guarantee is not tied to a specific data reduction rate. Instead, it ensures the overall effective capacity meets expectations.
D). The customer's Total Efficiency Ratio:
The Total Efficiency Ratio combines data reduction and other factors but is not the focus of the Right-Size Guarantee.
Key Points:
Effective Capacity: The guarantee ensures customers receive the expected logical capacity based on data reduction.
Data Reduction Techniques: Deduplication, compression, and pattern removal contribute to effective capacity.
Customer Support: Customers can collaborate with their SE if the guaranteed capacity is not achieved.
Reference: Pure Storage Evergreen//Forever Documentation: "Understanding the Right-Size Guarantee" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

NEW QUESTION # 48
A customer needs to be able to replicate from on-prem into the public cloud. They want to use the cloud as their DR site with failover and fallback capabilities.
Which Pure Storage feature should the customer use?

- A. Purity//FA CloudSnap periodic offload of snapshots to AWS
- B. ActiveCluster FC replication between a FlashArray on site and Evergreen//One
- C. Snapshot replication to replicate between a FlashArray on site and Cloud Block Store

Answer: C

Explanation:
The customer requires a disaster recovery (DR) solution that allows them to replicate data from their on-premises environment to the public cloud. They also need failover and fallback capabilities, meaning they must be able to switch operations to the cloud during a disaster and revert back to on-premises once the issue is resolved.
Snapshot replication between a FlashArray on-premises and Cloud Block Store (CBS) is the best solution for this use case. CBS integrates seamlessly with on-premises FlashArrays, enabling efficient replication of snapshots to the cloud. This feature supports failover and fallback operations, ensuring business continuity in the event of a disaster.
Why Not the Other Options?
B). Purity//FA CloudSnap periodic offload of snapshots to AWS: While CloudSnap allows periodic offloading of snapshots to AWS S3 for backup purposes, it does not provide the real-time replication and failover/fallback capabilities required for DR.
C). ActiveCluster FC replication between a FlashArray on site and Evergreen//One: ActiveCluster is designed for synchronous replication between two FlashArrays in different locations, but it does not support replication to the public cloud.
Key Points:
Snapshot Replication: Enables efficient and reliable replication of data between on-premises FlashArrays and Cloud Block Store.
Failover and Fallback: CBS supports these capabilities, ensuring minimal downtime during a disaster.
Integration with FlashArray: CBS is specifically designed to work with FlashArray, providing a seamless DR solution.
Reference: Pure Storage Cloud Block Store Documentation: "Disaster Recovery with Cloud Block Store" Pure Storage Best Practices Guide: "Replication and Failover in Hybrid Cloud Environments" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store"

NEW QUESTION # 49
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