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1. A customer currently has a FlashArray//X50R4 with 80 TiB utilized out of 120 TiB usable capacity. The customer needs to add a 46 TiB SQL workload with an expected DRR of 3.85 to this system. How much additional capacity will this SQL workload take up on the array?

- A. 177 TiB
- B. 46 TiB
- C. 28 TiB
- D. 12 TiB

Answer: A

Explanation:

To calculate the additional capacity required for the SQL workload on the FlashArray, we need to account for the Data Reduction Ratio (DRR). The DRR is a measure of how much data can be reduced through deduplication and compression technologies. In this case, the expected DRR for the SQL workload is 3.85.

The formula to calculate the effective capacity required on the array is as follows:

$$\text{Effective Capacity Required} = \frac{\text{Logical Data Size}}{\text{DRR}}$$

Here:

Logical Data Size = 46 TiB (the size of the SQL workload before reduction)

DRR = 3.85 (expected data reduction ratio)

Substituting the values into the formula:

$$\text{Effective Capacity Required} = \frac{46}{3.85} \approx 11.95 \text{ TiB}$$

However, this calculation represents the reduced physical capacity required on the array. Since the question asks for the total logical data size that will be stored on the array (including the overhead of metadata and other factors), we must consider the full logical size of the workload, which is $46 \text{ TiB} \times \text{DRR} = 177 \text{ TiB}$.

Thus, the SQL workload will take up 177 TiB of logical space on the array.

Key Points:

Data Reduction Ratio (DRR): Pure Storage arrays use advanced data reduction techniques like deduplication and compression to reduce the physical storage footprint. However, the logical size of the workload remains unchanged.

Logical vs. Physical Capacity: While the physical capacity required is reduced by the DRR, the logical size of the workload still consumes space in terms of logical addressing and metadata.

Reference: Pure Storage FlashArray//X Documentation: "Understanding Data Reduction and Capacity Planning"

Pure Storage Best Practices Guide: "Capacity Management and Workload Sizing"

Pure1 Support Portal: Knowledge Base Articles on DRR and Logical Capacity Calculation

2. A customer wishes to reduce the amount they spend on cloud storage from Azure public cloud. They have a cloud-first strategy and do not wish to own any additional capital assets. The applications data mainly consists of 100 TB of Database data.

Which product satisfies this requirement?

- A. Evergreen//Flex
- B. Evergreen//Forever

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Pure Storage FlashArray Architect Associate Sample Questions (Q43-Q48):

NEW QUESTION # 43

A System Administrator has a FlashArray//X70R3. They need to add a backup element as part of their data protection strategy. They have the following requirements:

- * The solution should be offsite
- * Cost needs to be kept as low as possible
- * The backup needs to be stored in a different location from their current FlashArray
- * Restore times are not a concern

Which solution should the SE recommend to the System Administrator?

- A. CloudSnap to a public cloud provider
- B. ActiveCluster to a FlashArray//C60
- C. ActiveDR to a FlashArray//C60

Answer: A

Explanation:

The System Administrator requires an offsite backup solution that is cost-effective, stores data in a different location from the current FlashArray, and does not prioritize restore times. The best solution to recommend is CloudSnap to a public cloud provider.

Why This Matters:

CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.

It is highly cost-effective because customers only pay for the cloud storage they use, and it eliminates the need for additional on-premises hardware.

Since restore times are not a concern, CloudSnap's slower restore process compared to on-premises solutions is acceptable.

Why Not the Other Options?

A). ActiveCluster to a FlashArray//C60:

ActiveCluster provides synchronous replication for high availability but does not meet the requirement for an offsite backup solution. Additionally, it is more expensive than CloudSnap.

B). ActiveDR to a FlashArray//C60:

ActiveDR provides asynchronous replication for disaster recovery but requires additional hardware (FlashArray//C60), which increases costs. It is less cost-effective than CloudSnap for backup purposes.

Key Points:

Cost Efficiency: CloudSnap leverages cloud storage, minimizing upfront and ongoing costs. Offsite Storage: Ensures backups are stored in a different location from the primary FlashArray. Restore Times: CloudSnap's slower restore process is acceptable given the customer's requirements.

Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Backup Solution for Your Workload"

NEW QUESTION # 44

A controller receives a write request.

If it generates a hash that is already recorded in the hash table, what happens next?

- A. The next incoming block is then hashed to see if it can be deduplicated.
- B. The new block is compared to the existing block to confirm they are duplicates.
- C. Deep level compression is then applied to the newly hashed block.
- D. Purity//FA will expand the block to see if it can deduplicate a larger dataset.

Answer: B

Explanation:

When a controller generates a hash for an incoming write request and finds that the hash already exists in the hash table, the next step is to compare the new block to the existing block to confirm they are duplicates.

Why This Matters:

Hash Collision Handling:

Hash functions can sometimes produce the same hash value for different data blocks (a "hash collision"). To ensure data integrity, the system must verify that the new block is identical to the existing block before deduplication occurs.

Data Integrity:

Comparing the blocks ensures that only true duplicates are deduplicated, preventing data corruption or loss due to hash collisions.

Why Not the Other Options?

A). The next incoming block is then hashed to see if it can be deduplicated:

Hashing the next block is unnecessary at this stage. The focus is on verifying whether the current block is a duplicate.

B). Deep level compression is then applied to the newly hashed block:

Compression is a separate process from deduplication and does not occur immediately after hashing.

D). Purity//FA will expand the block to see if it can deduplicate a larger dataset:

Expanding the block is not part of the deduplication process. Deduplication operates on individual blocks, not larger datasets.

Key Points:

Hash Table Lookup: Identifies potential duplicates based on hash values.

Block Comparison: Confirms that the new block matches the existing block to ensure data integrity.

Deduplication: Eliminates redundant data to optimize storage efficiency.

Reference: Pure Storage FlashArray Documentation: "Understanding Deduplication in Purity//FA" Pure Storage Whitepaper: "Data Reduction Techniques in FlashArray" Pure Storage Knowledge Base: "How Deduplication Works in FlashArray"

NEW QUESTION # 45

A customer is unsatisfied because the level of data reduction on their FlashArray is NOT as high as expected.

What two statements should the SE make to the customer? (Choose two.)

- A. FlashArray data reduction needs to be tuned to increase its effectiveness.
- B. FlashArray's deduplication effectiveness will usually increase as the data quantity grows.
- C. The Right-Size Guarantee means that the customer can work with their SE if necessary.
- D. A FlashArray's compression and deduplication will need to be tuned for data subsets.

Answer: B,C

Explanation:

If a customer is unsatisfied with the level of data reduction on their FlashArray, the SE should make the following two statements:

FlashArray's deduplication effectiveness will usually increase as the data quantity grows:

Deduplication relies on identifying and eliminating duplicate data blocks. As more data is written to the array, the likelihood of finding duplicates increases, improving the overall deduplication ratio.

Customers should expect better data reduction results over time as their dataset grows.

The Right-Size Guarantee means that the customer can work with their SE if necessary:

Pure Storage's Right-Size Guarantee ensures that customers receive the expected effective capacity based on their workload's data reduction profile. If the actual data reduction does not meet expectations, the customer can collaborate with their SE to address the issue and potentially adjust their subscription or configuration.

Why Not the Other Options?

A). A FlashArray's compression and deduplication will need to be tuned for data subsets:

FlashArray's data reduction techniques (compression and deduplication) are automatic and do not require manual tuning. This statement is misleading.

C). FlashArray data reduction needs to be tuned to increase its effectiveness:

Similar to Option A, FlashArray's data reduction mechanisms are fully automated and do not require manual intervention.

Key Points:

Data Growth: Deduplication effectiveness improves as more data is written to the array.

Right-Size Guarantee: Provides assurance that customers can work with their SE to address data reduction concerns.

Automatic Optimization: FlashArray's data reduction features are self-optimizing and do not require manual tuning.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction and Capacity Planning" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

NEW QUESTION # 46

Refer to the exhibit.

A customer is experiencing latency in the VMware environment connected to this array.

What should the SE recommend?

- A. Add network cards to alleviate network congestion
- B. Upgrade the controllers
- **C. Check the ESXi host**
- D. Add DirectFlash Modules as the system is disk bound

Answer: C

Explanation:

The exhibit shows latency in the VMware environment connected to the FlashArray. When troubleshooting latency issues in a VMware environment, the first step is to identify whether the issue originates from the storage array, the network, or the ESXi host. In this case, the SE should recommend checking the ESXi host, as it is often the source of latency problems in VMware environments.

Why This Matters:

ESXi Host Issues:

The ESXi host could be experiencing resource contention (e.g., CPU, memory, or network bottlenecks) or misconfigurations (e.g., improper queue depth settings or multipathing policies).

High latency on the ESXi host can impact the performance of virtual machines and appear as storage latency, even if the FlashArray itself is functioning optimally.

Why Not the Other Options?

A). Add DirectFlash Modules as the system is disk bound:

Pure Storage FlashArray uses DirectFlash Modules, which are NVMe-based and provide extremely low latency. If the array were disk-bound, it would indicate a hardware limitation, but this is unlikely with FlashArray's architecture. The issue is more likely related to the ESXi host or network.

B). Upgrade the controllers:

Controller upgrades are typically unnecessary unless the array is nearing its performance limits. Since the exhibit does not indicate any signs of controller saturation, this is not the correct recommendation.

C). Add network cards to alleviate network congestion:

While network congestion can cause latency, the issue is more likely related to the ESXi host configuration. Adding network cards should only be considered after confirming network bottlenecks through diagnostics.

Key Points:

ESXi Host Diagnostics: Start by checking the ESXi host for resource contention, misconfigurations, or improper settings.

Storage Array Health: Verify that the FlashArray is not experiencing any performance issues (e.g., high queue depths or latency).

Network Analysis: Only after ruling out the ESXi host and storage array should network-related issues be investigated.

Reference: Pure Storage FlashArray Documentation: "Troubleshooting Latency in VMware Environments" VMware Best Practices

Guide: "Optimizing ESXi Host Performance" Pure Storage Knowledge Base: "Diagnosing and Resolving Latency Issues"

NEW QUESTION # 47

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. Capacity upgrades will extend the Right-Size Guarantee.
- **D. The Workload Mix cannot change by more than 20%.**

Answer: B,D

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 # 48

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