

Why Not the Other Options?

A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.

C). Moving from a SAS- to NVMe-based shelf:

Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.

D). Upgrade Purity//FA code:

Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.

Key Points:

Physical Relocation: Causes unavoidable downtime and operational disruption.

Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.

Planning Required: Physical relocation requires careful planning to minimize risks and downtime.

Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

NEW QUESTION # 15

A customer wants to add capacity to support a new Oracle workload. It has been determined that the application needs 398 TB of thick-provisioned storage from the host. The customer wants to purchase the minimum storage capacity to handle this workload.

How much capacity should the SE propose, assuming DRR is 3:1?

- A. 132 TB
- B. 186 TB
- C. 62 TB
- D. 21 TB

Answer: A

Explanation:

To calculate the minimum storage capacity required to handle the Oracle workload, we need to account for the thick-provisioned storage requirement and the expected data reduction ratio (DRR).

Step-by-Step Calculation:

Logical Storage Requirement:

The application requires 398 TB of thick-provisioned storage from the host.

Data Reduction Ratio (DRR):

The DRR is 3:1, meaning the physical storage required is:

Recommendation:

The SE should propose 132 TB of physical storage, as it meets the requirement after accounting for data reduction.

Final Recommendation:

The correct answer is

A). 132 TB.

Reference: Capacity Planning Guide:

Pure Storage Capacity Planning

Provides guidance on calculating usable capacity based on data reduction ratios.

Thick vs. Thin Provisioning:

Provisioning Best Practices

Explains the differences between thick and thin provisioning.

NEW QUESTION # 16

Refer to the exhibit.



A customer is assessing the health of their FlashArray.

What should the customer discuss with their SE based on this information?

- A. Adding a second shelf of NVMe DirectFlash modules
- B. Upgrading the controller to the //X90R3 model
- C. Adding more network ports

Answer: A

Explanation:

Based on the exhibit (referenced via the link), the customer should discuss adding a second shelf of NVMe DirectFlash modules with their SE. This recommendation is based on the assumption that the exhibit indicates the array is nearing its capacity limits or requires additional storage to accommodate future growth.

Why This Matters:

Capacity Planning:

FlashArray uses DirectFlash Modules to provide high-performance, low-latency storage. If the array is approaching its physical capacity, adding a second shelf of NVMe modules is the most effective way to expand storage without requiring a full hardware upgrade.

This approach ensures the array can continue to meet the customer's growing storage needs while maintaining performance and reliability.

Scalability:

Pure Storage arrays are designed to scale seamlessly by adding expansion shelves. This allows customers to increase capacity without disrupting operations or replacing existing hardware.

Why Not the Other Options?

A). Upgrading the controller to the //X90R3 model:

Upgrading the controller is only necessary if the current controller is nearing its performance limits.

The exhibit does not indicate performance bottlenecks, so this step is likely unnecessary.

C). Adding more network ports:

Adding network ports is relevant for improving connectivity or bandwidth but does not address capacity concerns. If the array is running out of storage space, adding network ports will not resolve the issue.

Key Points:

Capacity Expansion: Adding a second shelf of NVMe modules provides additional storage capacity to support future growth.

Non-Disruptive Scaling: Expansion shelves can be added without downtime, ensuring continuous availability.

Cost Efficiency: Avoids unnecessary upgrades or replacements, optimizing costs while meeting capacity requirements.

Reference: Pure Storage FlashArray Documentation: "Expanding FlashArray Capacity with DirectFlash Modules" Pure Storage Whitepaper: "Scaling Storage with FlashArray Expansion Shelves" Pure Storage Knowledge Base: "Best Practices for Capacity Planning and Expansion"

NEW QUESTION # 17

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

Answer: D

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 # 18

Refer to the exhibit.



What does the depicted value 77.24 T represent?

- A. Total useable space
- B. Total raw space on the array
- **C. The guaranteed capacity**
- D. Total deduplicated 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=Physical 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 # 19

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