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Exam : **FAAA_005**

Title : Pure Storage FlashArray
Architect Associate

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Pure Storage FlashArray Architect Associate Sample Questions (Q55-Q60):

NEW QUESTION # 55
Which two statements describe Pure Storage's Right-Size Guarantee? (Select two.)

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

Answer: C,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
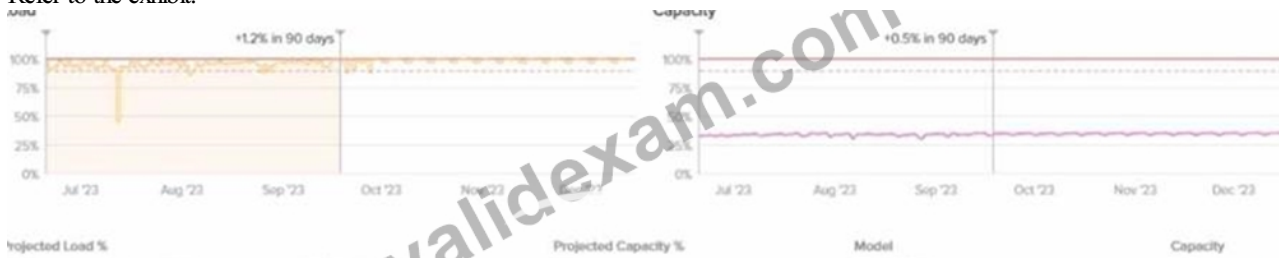Details the terms and conditions of the Right-Size Guarantee.
Evergreen Subscription Tiers:
Pure Storage Evergreen Subscriptions
Explains the differences between Evergreen subscription tiers.

NEW QUESTION # 56
Refer to the exhibit.

A customer is experiencing latency in the VMware environment connected to this array.
What should the SE recommend?

- A. Upgrade the controllers

- B. Add network cards to alleviate network congestion
- 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 # 57
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. Total useable space
- D. The guaranteed capacity

Answer: D

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 # 58

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

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

Answer: D

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 # 59

A customer is in the very early stages of designing a storage solution at a greenfield site.

They wish to use NVMe-TCP connectivity and require approximately:

* 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches.

* The dedicated SAN switches support up to 25 Gbps connectivity.

What is the minimum number of Ethernet ports in total they should connect from the FlashArray to the SAN switches while still

ensuring resiliency?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:
To achieve 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches, while ensuring resiliency, the customer must connect a sufficient number of Ethernet ports from the FlashArray to the SAN switches. Given that the dedicated SAN switches support up to 25 Gbps connectivity per port, the calculation is as follows:
Throughput Requirement:
The customer requires 100 Gbps of raw throughput.
Each Ethernet port provides 25 Gbps of bandwidth.
Number of Ports Needed:
To meet the 100 Gbps requirement:
Resiliency Requirement:
Resiliency ensures that the solution can tolerate failures (e.g., switch or link failures). To achieve this, the customer must double the number of ports to provide redundant paths.
Therefore, the total number of ports required is:4×2=8ports.
Why Not the Other Options?
B).2:
Two ports would only provide 50 Gbps of raw throughput (2 × 25 Gbps), which does not meet the 100 Gbps requirement. Additionally, there would be no redundancy, violating the resiliency requirement.
C).4:
Four ports would meet the 100 Gbps throughput requirement but would lack redundancy, making the solution vulnerable to failures.
D).16:
Sixteen ports would exceed the required throughput and redundancy, resulting in unnecessary costs and complexity.
Key Points:
Throughput Calculation: Ensure the total bandwidth meets the 100 Gbps requirement.
Resiliency: Double the number of ports to provide redundant paths for high availability.
Optimization: Use the minimum number of ports that satisfy both throughput and resiliency requirements.
Reference: Pure Storage FlashArray Documentation: "Network Design and Configuration Best Practices" Pure Storage Whitepaper: "NVMe-TCP Connectivity and Performance Optimization" Pure Storage Knowledge Base: "Calculating Required Network Ports for FlashArray"

NEW QUESTION # 60

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