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Pure Storage FlashArray Architect Associate Sample Questions (Q54-Q59):

NEW QUESTION # 54
What is the fastest way to duplicate volume data for a test/dev environment?

- A. Mount the snapshot to a development host
- B. Use a backup copy
- C. Restore from a volume snapshot
- D. Make a volume copy

Answer: A

Explanation:
The fastest way to duplicate volume data for a test/dev environment is to mount the snapshot to a development host. This approach leverages the efficiency of snapshots without requiring additional storage or time-consuming operations like copying or restoring data.
Why This Matters:
Snapshots:
Snapshots are space-efficient, point-in-time copies of a volume that do not consume additional storage until changes are made to the original data.
Mounting a snapshot directly to a development host allows immediate access to the data without the need for duplication or restoration.
Speed and Efficiency:
Mounting a snapshot is significantly faster than creating a full copy or restoring from a backup, as it avoids the overhead of data movement or replication.
Why Not the Other Options?
A). Use a backup copy:
Restoring data from a backup is time-consuming and requires additional storage. It is not the fastest method for duplicating data.
B). Make a volume copy:
Creating a full volume copy consumes additional storage and takes longer than mounting a snapshot.
C). Restore from a volume snapshot:
Restoring from a snapshot involves writing data back to the original volume, which is slower than simply mounting the snapshot for read-only or writable access.
Key Points:
Snapshots: Provide fast, space-efficient access to data for test/dev environments.
Mounting Snapshots: Allows immediate access without additional storage or time-consuming operations.
Efficiency: Minimizes resource usage and accelerates test/dev workflows.
Reference: Pure Storage FlashArray Documentation: "Using Snapshots for Test/Dev Environments" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Mounting Snapshots to Hosts"

NEW QUESTION # 55
A healthcare customer who is already leveraging a FlashArray//X50 for VMware datastores has added a radiology department to their facility and requires a file-based storage solution for medical imaging.
* They have 35 usable TB free.
* They anticipate storing 15 TB in images.
* System load is currently 35%.
Which approach will enable this workload?

- A. Medical imaging always belongs on a FlashBlade.
- B. They can use FA File on the array as-is.
- C. They must first upgrade the controllers to a //X70 and enable FA File.
- D. They should purchase a FlashArray//C and enable FA File.

Answer: B

Explanation:

The healthcare customer already has a FlashArray//X50 with 35 usable TB free and anticipates storing 15 TB of medical imaging data. Since the system load is currently 35%, they can enable FA File on the array as-is to support the new workload.

Why This Matters:

FA File:

FA File Services enables file-based storage (NFS and SMB) on FlashArray, allowing the array to handle both block and file workloads simultaneously.

With 35 TB of free capacity and only 15 TB required for medical imaging, there is sufficient space to accommodate the new workload.

The current system load of 35% indicates that the array has ample headroom to handle the additional workload without requiring upgrades.

Why Not the Other Options?

A). They must first upgrade the controllers to a //X70 and enable FA File:

Upgrading to a //X70 is unnecessary given the available capacity and low system load. The current //X50 is capable of supporting the workload.

C). Medical imaging always belongs on a FlashBlade:

While FlashBlade is ideal for large-scale, high-performance unstructured data workloads, it is not mandatory for this use case. FA File on FlashArray//X50 is sufficient for 15 TB of medical imaging data.

D). They should purchase a FlashArray//C and enable FA File:

Purchasing a new array is unnecessary given the available resources on the existing FlashArray//X50.

Key Points:

FA File: Enables file-based storage on FlashArray without requiring additional hardware.

Capacity and Load: The array has sufficient free space and performance headroom to handle the new workload.

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

Reference: Pure Storage FlashArray Documentation: "FA File Services Overview" Pure Storage Whitepaper: "Consolidating Workloads on FlashArray" Pure Storage Knowledge Base: "Supporting Multiple Workloads with FlashArray"

NEW QUESTION # 56

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

Answer: C,D

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 # 57

A customer wants to store 100 TiB of Oracle data and 200 TiB of VDI data onto a FlashArray. When checking the data reduction ratio, the given data reduction ratios are 4:1 for Oracle and 5:1 for VDI.

What is the minimum useable capacity needed on the FlashArray?

- A. 300TiB
- B. 40TiB
- C. 65TiB
- D. 750TiB

Answer: B

Explanation:
To calculate the minimum usable capacity needed on the FlashArray, we must account for the data reduction ratios provided for Oracle and VDI workloads.
Here's the step-by-step calculation:
Given Data:
Oracle data: 100 TiB with a 4:1 data reduction ratio.
VDI data: 200 TiB with a 5:1 data reduction ratio.
Calculation:
Oracle Data Reduction:
Effective capacity after reduction = 100 TiB ÷ 4 = 25 TiB.
VDI Data Reduction:
Effective capacity after reduction = 200 TiB ÷ 5 = 40 TiB.
Total Usable Capacity Needed:
Total effective capacity = 25 TiB (Oracle) + 40 TiB (VDI) = 65 TiB.
Recommendation:
The minimum usable capacity needed on the FlashArray is 65 TiB. However, since the question asks for the minimum usable capacity and the options include 40 TiB, it appears there may be a misunderstanding in the question phrasing. Assuming the intent is to find the total usable capacity, the correct answer is 65 TiB.
Reference: Pure Storage Data Reduction Overview:
Pure Storage Data Reduction
Explains how data reduction ratios impact storage capacity planning.
FlashArray Capacity Planning Guide:
FlashArray Capacity Planning
Provides guidance on calculating usable capacity based on data reduction ratios.

NEW QUESTION # 58

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 # 59

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