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Pure Storage FlashArray Architect Associate Sample Questions (Q37-Q42):

NEW QUESTION # 37

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

Answer: B

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: $Usable\ Capacity = 247TB \times 0.8 = 197.6TB$.

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: $Usable\ Capacity = 228TB \times 0.8 = 182.4TB$.

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 # 38

Refer to the exhibit.



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

What should the SE recommend?

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

Answer: A

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 # 39

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: B

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: $4 \times 2 = 8$ ports.

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 # 40

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

Answer: B

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 # 41

A cost-conscious customer at a small regional hospital is running a PACS image archive on an NL-disk array.

The customer has the following requirements:

- * More than 1 PB of storage
- * Latency is not a concern
- * Customer user shares must be on the same array

Which solution will meet the customer's needs?

- **A. FlashArray//C**
- B. FlashArray//X
- C. FlashArray//XL

Answer: A

Explanation:

The customer at the small regional hospital requires a storage solution for a PACS image archive with the following requirements: More than 1 PB of storage

Latency is not a concern

Customer user shares must be on the same array

The best solution to meet these needs is FlashArray//C.

Why This Matters:

FlashArray//C:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like PACS image archives that require large amounts of storage at a lower cost per GB.

It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.

With its ability to scale to over 1 PB of storage, FlashArray//C can meet the customer's capacity requirements while supporting both block and file workloads (e.g., user shares) on the same array using FA File Services.

Why Not the Other Options?

A). FlashArray//X:

FlashArray//X is optimized for high-performance workloads, such as databases and mission-critical applications. While it supports large capacities, it is more expensive and not the most cost-effective solution for latency-insensitive workloads like PACS archives.

B). FlashArray//XL:

FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for this use case and would significantly increase costs without providing proportional benefits.

Key Points:

FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale, latency-insensitive workloads.

Unified Storage: Supports both block and file workloads on the same array, meeting the requirement for user shares.

Cost Efficiency: Balances performance and cost, making it suitable for PACS archives and similar use cases.

Reference: Pure Storage FlashArray//C Documentation: "Use Cases for FlashArray//C" Pure Storage Whitepaper: "Optimizing Storage Costs with FlashArray//C" Pure Storage Knowledge Base: "Choosing the Right FlashArray Model for Your Workload"

NEW QUESTION # 42

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