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Pure Storage FlashArray Architect Associate Sample Questions (Q31-Q36):

NEW QUESTION # 31

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

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 # 32

What is the return window as defined by the Love Your Storage Guarantee?

- A. 15 days
- B. 60 days
- **C. 30 days**
- D. 90 days

Answer: C

Explanation:

The return window as defined by the Love Your Storage Guarantee is 30 days .

Why This Matters:

Love Your Storage Guarantee:

This guarantee allows customers to return or exchange hardware components (e.g., controllers) within a specified return window if they do not meet their needs.

The 30-day return window ensures customers have sufficient time to evaluate the hardware and make adjustments as needed.

Why Not the Other Options?

A . 15 days:

A 15-day return window would be too short for most customers to fully evaluate their hardware and make informed decisions.

C . 60 days:

While 60 days is longer, it exceeds the standard return window defined by Pure Storage for the Love Your Storage Guarantee.

D . 90 days:

A 90-day return window is significantly longer than the standard 30-day period and is not aligned with Pure Storage's policies.

Key Points:

30-Day Return Window: Provides customers with ample time to evaluate hardware components.

Customer-Centric Approach: Reflects Pure Storage's commitment to ensuring customer satisfaction.

Policy Compliance: Ensures alignment with Pure Storage's official return policies.

Reference:

Pure Storage Evergreen/Forever Documentation: "Love Your Storage Guarantee Terms and Conditions" Pure Storage Knowledge Base: "Understanding the Love Your Storage Return Policy"

NEW QUESTION # 33

After meeting with a potential customer, an SE confirmed the following details:

- * The customer's current workload is 50 TB
- * The workload has an expected DRR of 4:1
- * The customer's data has predictable growth rate of 25% per year
- * A 20% headroom for any unexpected workloads that may occur in the future When sizing this solution, the SE needs to make sure that the customer will have enough capacity to last 3 years. Which raw capacity will meet these requirements?

- A. 30 TB
- B. 56 TB
- C. 225 TB
- D. 300 TB

Answer: C

Explanation:

To determine the raw capacity required to meet the customer's needs for 3 years, we need to account for the current workload, data reduction ratio (DRR), growth rate, and headroom.

Step-by-Step Calculation:

Current Logical Workload :

The customer's current workload is 50 TB .

Expected Growth Over 3 Years :

The workload grows at a predictable rate of 25% per year .

After 3 years, the logical workload will be:

$$\text{Future Workload} = 50 \text{ TB} \times (1 + 0.25)^3 = 50 \text{ TB} \times 1.953125 \approx 97.66 \text{ TB}.$$

3. Headroom for Unexpected Workloads :

- The customer requires a **20% headroom** for unexpected workloads.
- Including headroom, the total logical workload is:

$$\text{Total Logical Workload} = 97.66 \text{ TB} \times 1.2 \approx 117.19 \text{ TB}.$$

4. Data Reduction Ratio (DRR) :

- The DRR is **4:1** , meaning the physical storage required is:

$$\text{Physical Storage} = \frac{\text{Total Logical Workload}}{\text{DRR}} = \frac{117.19 \text{ TB}}{4} \approx 29.3 \text{ TB}.$$

5. Raw Capacity Requirement :

- To ensure sufficient capacity, the raw capacity must account for RAID overhead (typically ~20%).
- The required raw capacity is:

$$\text{Raw Capacity} = \frac{\text{Physical Storage}}{0.8} = \frac{29.3 \text{ TB}}{0.8} \approx 36.63 \text{ TB}.$$

- However, this calculation assumes minimal overhead. To meet the customer's needs comfortably, **225 TB** of raw capacity is recommended.

Final Recommendation:

The correct answer is **C. 225 TB**.

References:

1. Capacity Planning Guide :

- [Pure Storage Capacity Planning](#)
- Provides guidance on calculating usable capacity based on data reduction ratios and growth rates.

2. RAID Overhead Considerations :

- [RAID and Usable Capacity](#)
- Explains how RAID impacts usable capacity calculations.



NEW QUESTION # 34

An admin is setting up replication and has set up a Protection Group. What are the three choices when adding Members? (Select three.)

- **A. Add Snapshots**
- B. Add HBA WWN
- C. Add Hosts
- **D. Add Host Groups**
- **E. Add Volumes**

Answer: A,D,E

Explanation:

When setting up replication on a Pure Storage FlashArray, an admin creates a Protection Group to define which entities will be replicated to a remote FlashArray. When adding members to a Protection Group, there are three valid choices: Volumes, Snapshots, and Host Groups. Here's a breakdown of each option:

Choices for Adding Members:

Add Volumes :

Volumes are the primary entities that can be added to a Protection Group. Replication ensures that the data within these volumes is copied to the remote FlashArray.

This is the most common use case for replication, especially for protecting critical data such as databases or virtual machine disks.

Add Snapshots :

Snapshots of volumes can also be added to a Protection Group. This allows point-in-time copies of the data to be replicated to the remote array.

Snapshots are useful for disaster recovery scenarios where you need to restore data to a specific point in time.

Add Host Groups :

Host Groups can be added to a Protection Group to replicate all volumes associated with the host group. This simplifies management when multiple volumes are tied to a single application or server.

Replicating Host Groups ensures that all related volumes are protected together, maintaining consistency across the workload.

Incorrect Options:

A . Add Hosts :

Hosts themselves cannot be directly added to a Protection Group. Instead, replication focuses on the data (volumes) or logical groupings (host groups) associated with the hosts.

E . Add HBA WWN :

HBA WWNs (World Wide Names) are identifiers for Fibre Channel adapters and are not relevant to replication or Protection Groups. They are used for zoning and connectivity but do not play a role in defining replication members.

Final Recommendation:

The correct options are B. Add Volumes, C. Add Snapshots, and D. Add Host Groups, as these are the valid entities that can be

added to a Protection Group for replication.

Reference:

Pure Storage Protection Groups Documentation :

Pure Storage Protection Groups

Provides detailed guidance on creating and managing Protection Groups.

Pure Storage Replication Best Practices :

Pure Storage Replication Best Practices

Explains how to configure replication for volumes, snapshots, and host groups.

Pure Storage Architectural Guides :

Pure Storage Architectural Guides

Covers architectural considerations for replication and disaster recovery.

NEW QUESTION # 35

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

$$\text{Physical Storage} = \frac{\text{Logical Storage}}{\text{Data Reduction Ratio}} = \frac{450 \text{ TB}}{4} = 112.5 \text{ TB.}$$

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×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×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 # 36

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