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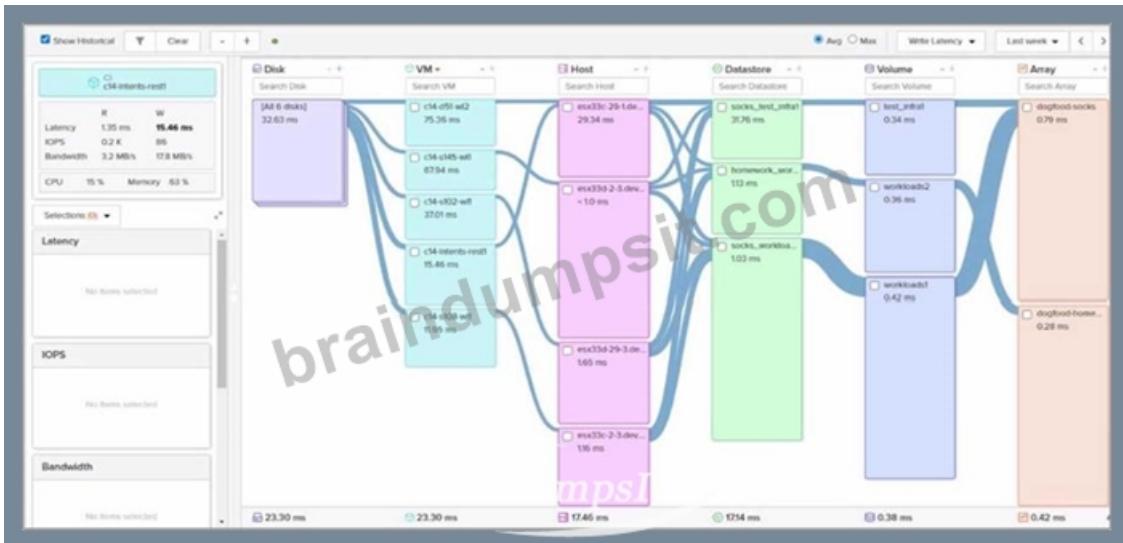
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Pure Storage FlashArray Architect Associate Sample Questions (Q31-Q36):

NEW QUESTION # 31

Refer to the exhibit.



Which VM is running on the ESXi host with the lowest write latency?

- A. c14-s145-w11
- B. **c14-d51-w12**
- C. c14-s102-w11
- D. C14-s108-w11

Answer: B

Explanation:

Write Latency:

Write latency refers to the time it takes for a write operation to complete on the storage array. Lower write latency indicates better performance and faster response times for write-intensive workloads.

In Pure Storage arrays, write latency is typically measured in milliseconds (ms) and can be monitored using tools like Pure1 or Purity//FA performance metrics.

VM-to-Host Mapping:

Each VM runs on an ESXi host, and the write latency of the VM is influenced by the storage performance characteristics of the host it resides on.

To identify the VM with the lowest write latency, we must compare the write latency values for each VM listed in the exhibit.

NEW QUESTION # 32

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

Answer: A

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 # 33

An admin is setting up replication and has set up a Protection Group.

What are the three choices when adding Members? (Select three.)

- A. AddHBAWWN
- B. Add Snapshots
- C. Add Host Groups
- D. Add Volumes
- E. Add Hosts

Answer: B,C,D

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 # 34

Which FlashArray feature best protects local snapshots from ransomware attacks?

- A. CloudSnap
- B. ActiveCluster
- C. **SafeMode**

Answer: C

Explanation:

The FlashArray feature that best protects local snapshots from ransomware attacks is SafeMode.

Why This Matters:

SafeMode Snapshots:

SafeMode is a security feature that creates immutable snapshots, meaning they cannot be deleted, modified, or encrypted by malicious actors, including ransomware.

These snapshots are locked for a user-defined retention period, ensuring data integrity and recoverability even in the event of a ransomware attack.

Why Not the Other Options?

A). CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it provides an offsite backup solution, it does not inherently protect against ransomware attacks targeting local snapshots.

C). ActiveCluster:

ActiveCluster provides synchronous replication between two sites for high availability. While it ensures data redundancy, it does not protect against ransomware attacks targeting snapshots.

Key Points:

SafeMode: Creates immutable snapshots to protect against ransomware attacks. Data Integrity: Ensures snapshots remain unaltered during the retention period. Ransomware Protection: A critical feature for safeguarding data in modern IT environments.

Reference: Pure Storage FlashArray Documentation: "SafeMode Snapshots for Ransomware Protection" Pure Storage Whitepaper: "Protecting Data Against Ransomware with FlashArray" Pure Storage Knowledge Base: "Best Practices for Using SafeMode Snapshots"

NEW QUESTION # 35

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

Answer: A

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 # 36

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