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## Pure Storage FlashArray Architect Associate Sample Questions (Q41-Q46):

### NEW QUESTION # 41

Refer to the exhibit.



A customer is assessing the health of their FlashArray.

What should the customer discuss with their SE based on this information?

- A. Adding more network ports
- **B. Adding a second shelf of NVMe DirectFlash modules**
- C. Upgrading the controller to the //X90R3 model

**Answer: B**

Explanation:

Based on the exhibit (referenced via the link), the customer should discuss adding a second shelf of NVMe DirectFlash modules with their SE. This recommendation is based on the assumption that the exhibit indicates the array is nearing its capacity limits or requires additional storage to accommodate future growth.

Why This Matters:

Capacity Planning:

FlashArray uses DirectFlash Modules to provide high-performance, low-latency storage. If the array is approaching its physical capacity, adding a second shelf of NVMe modules is the most effective way to expand storage without requiring a full hardware upgrade.

This approach ensures the array can continue to meet the customer's growing storage needs while maintaining performance and reliability.

Scalability:

Pure Storage arrays are designed to scale seamlessly by adding expansion shelves. This allows customers to increase capacity without disrupting operations or replacing existing hardware.

Why Not the Other Options?

A). Upgrading the controller to the //X90R3 model:

Upgrading the controller is only necessary if the current controller is nearing its performance limits.

The exhibit does not indicate performance bottlenecks, so this step is likely unnecessary.

C). Adding more network ports:

Adding network ports is relevant for improving connectivity or bandwidth but does not address capacity concerns. If the array is running out of storage space, adding network ports will not resolve the issue.

Key Points:

Capacity Expansion: Adding a second shelf of NVMe modules provides additional storage capacity to support future growth.

Non-Disruptive Scaling: Expansion shelves can be added without downtime, ensuring continuous availability.

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

Reference: Pure Storage FlashArray Documentation: "Expanding FlashArray Capacity with DirectFlash Modules" Pure Storage Whitepaper: "Scaling Storage with FlashArray Expansion Shelves" Pure Storage Knowledge Base: "Best Practices for Capacity Planning and Expansion"

## NEW QUESTION # 42

An existing customer wants a new set of arrays with the following characteristics:

\* Business critical workload that requires sub millisecond response times

\* Synchronous replication configured to their secondary site

\* Offload snapshots to a third location where they do not have a FlashArray Which solution will meet the customer's needs?

FlashArray//Xs with ActiveDR and CloudSnap

- A. FlashArray//Cs with ActiveCluster and Snapshot Replication
- B. FlashArray//Xs with ActiveCluster and CloudSnap
- C. FlashArray//Cs with ActiveDR and Snapshot Replication

**Answer: B**

Explanation:

The customer has the following requirements:

Business-critical workload that requires sub-millisecond response times Synchronous replication configured to their secondary site Offload snapshots to a third location where they do not have a FlashArray The best solution to meet these needs is FlashArray//Xs with ActiveCluster and CloudSnap.

Why This Matters:

FlashArray//Xs:

FlashArray//X is optimized for high-performance workloads, delivering sub-millisecond response times required for business-critical applications.

ActiveCluster:

ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO for high availability.

CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob), enabling disaster recovery or archival at a third location without requiring an additional FlashArray.

Why Not the Other Options?

B). FlashArray//Cs with ActiveDR and Snapshot Replication:

FlashArray//C is designed for capacity-optimized workloads and does not provide the sub-millisecond response times required for business-critical applications.

ActiveDR provides asynchronous replication, which does not meet the requirement for synchronous replication.

C). FlashArray//Cs with ActiveCluster and Snapshot Replication:

Again, FlashArray//C is not suitable for sub-millisecond response times. Additionally, snapshot replication to a third location is less efficient than CloudSnap for offloading data to the cloud.

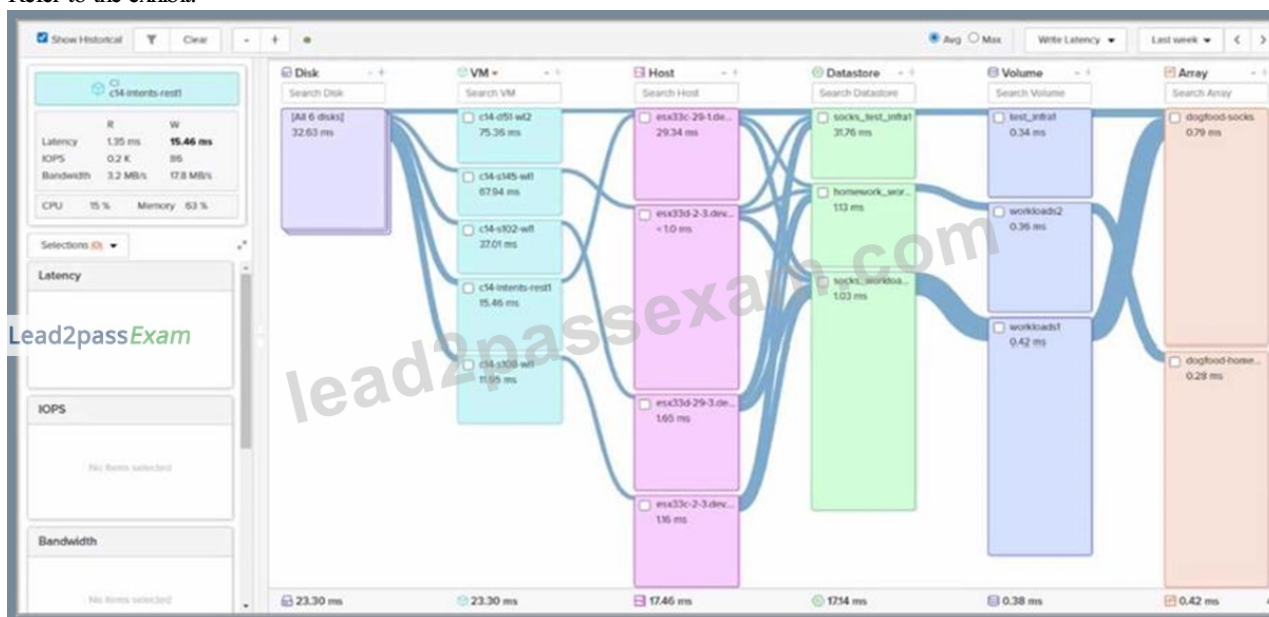
Key Points:

FlashArray//Xs: Delivers the high performance required for business-critical workloads. ActiveCluster: Ensures synchronous replication for high availability across two sites. CloudSnap: Provides cost-effective offsite protection by offloading snapshots to the cloud.

Reference: Pure Storage FlashArray Documentation: "ActiveCluster with CloudSnap" Pure Storage Whitepaper: "Disaster Recovery Strategies with FlashArray" Pure Storage Knowledge Base: "Using Protection Groups in Stretched Pods"

## NEW QUESTION # 43

Refer to the exhibit.



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

- A. c14-s102-w11

- B. c14-d51-w12
- C. c14-s145-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 # 44

A customer has presented two workloads that need to be replicated. One is a highly transactional database workload and the other is a VM datastore with tier one applications.

The customer has the following requirements:

- \* The database workload is highly reliant on storage performance. The VM datastore requires zero downtime.
- \* The customer has advised the two FlashArrays will be 20 miles apart and they are worried that this could impact their internal SLAs.

What replication strategies should be advised for these workloads?

- A. ActiveCluster should be used for both workloads.
- B. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- C. ActiveCluster should be used for the VM workloads and ActiveDR for the database workload.
- D. ActiveDR should be used for both workloads.

**Answer: C**

Explanation:

To address the customer's requirements, we need to evaluate the replication strategies offered by Pure Storage FlashArray: ActiveCluster and ActiveDR, and how they align with the specific needs of the two workloads.

Workload Analysis:

Transactional Database Workload:

This workload is highly reliant on storage performance. Any replication strategy must ensure minimal latency and high availability to avoid impacting transactional throughput and response times.

The database workload typically benefits from synchronous replication to maintain consistency and performance across sites.

VM Datastore (Tier 1 Applications):

This workload requires zero downtime, meaning it must remain accessible even in the event of a site failure. High availability and seamless failover are critical.

The VM datastore can tolerate some level of asynchronous replication as long as it does not compromise availability or recovery objectives.

Replication Strategies:

ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two FlashArrays. It ensures zero RPO (Recovery Point Objective) and zero RTO (Recovery Time Objective), making it ideal for workloads requiring continuous availability and zero downtime.

ActiveCluster is well-suited for the VM datastore workload because it guarantees seamless failover and high availability, meeting the zero-downtime requirement.

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides near-zero RPO (typically seconds to minutes) and allows for non-disruptive testing of failover scenarios.

ActiveDR is better suited for the transactional database workload because it minimizes the impact of latency over the 20-mile distance while still maintaining high performance and consistency.

Distance Consideration:

The 20-mile distance between the two FlashArrays introduces latency concerns. Synchronous replication (ActiveCluster) can handle

this distance effectively for the VM datastore workload due to its tolerance for slightly higher latency. However, for the transactional database workload, the latency could degrade performance, making ActiveDR a better choice.

Final Recommendation:

Use ActiveCluster for the VM datastore workload to achieve zero downtime and high availability.

Use ActiveDR for the transactional database workload to balance performance and disaster recovery needs over the 20-mile distance.

Reference: Pure Storage ActiveCluster Documentation:

Explains the synchronous replication capabilities and use cases for ActiveCluster.

Pure Storage ActiveCluster

Pure Storage ActiveDR Documentation:

Details the asynchronous replication features and disaster recovery use cases for ActiveDR.

Pure Storage ActiveDR

Pure Storage Best Practices for Replication:

Provides guidance on selecting the appropriate replication strategy based on workload requirements and distance considerations.

Pure Storage Replication Best Practices

Pure Storage Architectural Guides:

Covers architectural considerations for deploying ActiveCluster and ActiveDR in multi-site environments.

Pure Storage Architectural Guides

This approach ensures that both workloads meet their respective SLAs while addressing the customer's concerns about distance and performance.

#### NEW QUESTION # 45

Which FlashArray feature best protects local snapshots from ransomware attacks?

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

**Answer: A**

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 # 46

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