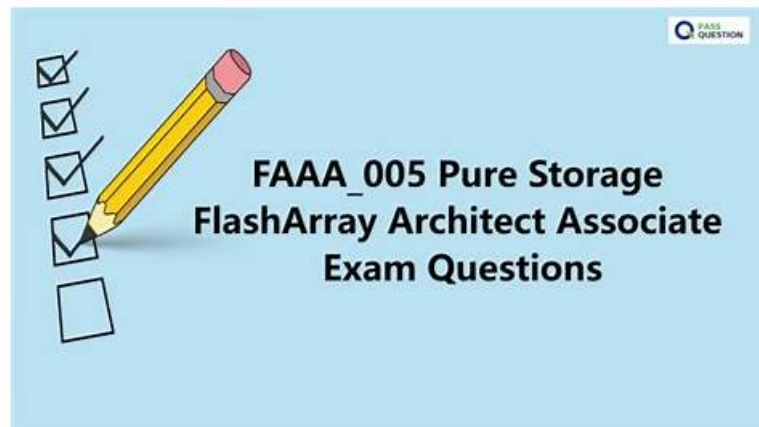# Web-Based Pure Storage FAAA_005 Practice Exam - Get Familiar With Real Exam Environment

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Pure Storage FlashArray Architect Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28
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. Upgrading the controller to the //X90R3 model
- B. Adding more network ports
- C. Adding a second shelf of NVMe DirectFlash modules

Answer: C

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 # 29
What is the fastest way to duplicate volume data for a test/dev environment?

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

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 # 30
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. FlashArray data reduction needs to be tuned to increase its effectiveness.
- B. The Right-Size Guarantee means that the customer can work with their SE if necessary.
- C. FlashArray's deduplication effectiveness will usually increase as the data quantity grows.
- D. A FlashArray's compression and deduplication will need to be tuned for data subsets.

Answer: B,C

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 # 31
A controller receives a write request.
If it generates a hash that is already recorded in the hash table, what happens next?

- A. Purity//FA will expand the block to see if it can deduplicate a larger dataset.
- B. The next incoming block is then hashed to see if it can be deduplicated.
- C. Deep level compression is then applied to the newly hashed block.

- D. The new block is compared to the existing block to confirm they are duplicates.

Answer: D

Explanation:
When a controller generates a hash for an incoming write request and finds that the hash already exists in the hash table, the next step is to compare the new block to the existing block to confirm they are duplicates.
Why This Matters:
Hash Collision Handling:
Hash functions can sometimes produce the same hash value for different data blocks (a "hash collision"). To ensure data integrity, the system must verify that the new block is identical to the existing block before deduplication occurs.
Data Integrity:
Comparing the blocks ensures that only true duplicates are deduplicated, preventing data corruption or loss due to hash collisions.
Why Not the Other Options?
A). The next incoming block is then hashed to see if it can be deduplicated:
Hashing the next block is unnecessary at this stage. The focus is on verifying whether the current block is a duplicate.
B). Deep level compression is then applied to the newly hashed block:
Compression is a separate process from deduplication and does not occur immediately after hashing.
D). Purity//FA will expand the block to see if it can deduplicate a larger dataset:
Expanding the block is not part of the deduplication process. Deduplication operates on individual blocks, not larger datasets.
Key Points:
Hash Table Lookup: Identifies potential duplicates based on hash values.
Block Comparison: Confirms that the new block matches the existing block to ensure data integrity.
Deduplication: Eliminates redundant data to optimize storage efficiency.
Reference: Pure Storage FlashArray Documentation: "Understanding Deduplication in Purity//FA" Pure Storage Whitepaper: "Data Reduction Techniques in FlashArray" Pure Storage Knowledge Base: "How Deduplication Works in FlashArray"

NEW QUESTION # 32

The customer asks if the FlashArray is suitable for a cloud-native application that utilizes containers and Kubernetes.
Which response addresses this question?

- A. This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes.
- B. This is supported via an installable CSI provider specifically for the FlashArray.
- C. This is not supported with FlashArray and this application data will need to be stored on a different array.
- D. This is supported via Pure's Portworx offering.

Answer: D

Explanation:
The FlashArray is suitable for cloud-native applications that utilize containers and Kubernetes, but the best way to address this use case is through Pure Storage's Portworx offering.
Why This Matters:
Portworx:
Portworx is a container storage and data management platform specifically designed for Kubernetes and cloud-native applications. It integrates seamlessly with FlashArray to provide persistent storage, data protection, and advanced features like snapshots, replication, and disaster recovery for containerized workloads.
Portworx ensures high performance, scalability, and reliability for stateful applications running in Kubernetes environments.
Why Not the Other Options?
A). This is not supported with FlashArray and this application data will need to be stored on a different array:
This statement is incorrect. FlashArray is fully capable of supporting cloud-native applications when paired with the right tools, such as Portworx.
B). This is supported via an installable CSI provider specifically for the FlashArray:
While FlashArray does support a Container Storage Interface (CSI) driver, it is a basic integration and does not provide the advanced features and capabilities offered by Portworx for Kubernetes environments.
D). This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes:
This statement is incorrect. Pure Storage solutions are compatible with both direct-attached storage (DAS) and external storage arrays like FlashArray.
Key Points:
Portworx: The recommended solution for integrating FlashArray with Kubernetes and containerized applications.
Advanced Features: Provides persistent storage, data protection, and scalability for cloud-native workloads.

Integration: Ensures seamless compatibility between FlashArray and Kubernetes environments.
Reference: Pure Storage Portworx Documentation: "Integrating Portworx with FlashArray" Pure Storage Whitepaper: "Cloud-Native Storage Solutions with Portworx" Pure Storage Knowledge Base: "Best Practices for Kubernetes and FlashArray Integration"

NEW QUESTION # 33

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