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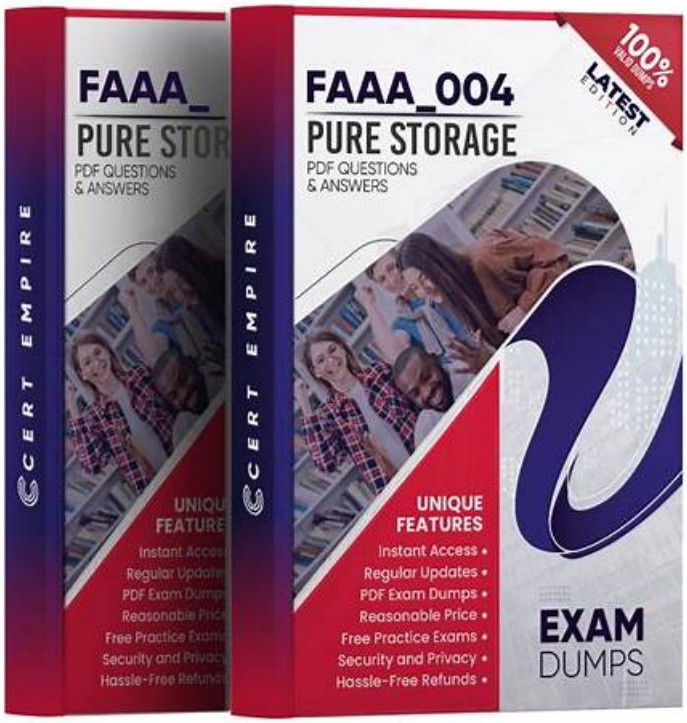

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Pure Storage FAAA_004 Exam Syllabus Topics:

Topic	Details
Topic 1	• Array Monitoring and Architecture: This section measures the skills of Storage Architects and covers explaining FlashArray's high availability architecture, defining FlashArray features (e.g., ActiveCluster, ActiveDR), explaining data reduction methods, identifying components of FlashArrays, and analyzing performance metrics and capacity usage using Pure1 Manage3. A crucial skill evaluated is "analyzing performance metrics".
Topic 2	• Subscriptions and DX: This section evaluates the competencies of Account Managers regarding Pure Storage's subscription services and digital experience. It focuses on identifying the benefits of Pure's Evergreen program (Evergreen • • One, • • Forever, • • Flex) and Love Your Storage Guarantee, as well as determining future capacity, performance, and upgrade requirements through workload and hardware simulations.

Topic 3	• Qualify, Sell, and Architect: This section of the exam assesses the skills of Technical Sales Engineers and covers identifying solutions based on customer requirements, sizing solutions based on customer needs using tools like Pure FlashArray Sizer, identifying market trends and opportunities (e.g., Ransomware and Portworx Solution Centers), demonstrating an understanding of FlashArray use cases, and demonstrating an understanding of unified storage on FlashArray37. A key skill measured is "identifying solutions based on customer requirements.

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100% Pass Quiz 2025 FAAA_004: Fantastic Practice Pure Storage FlashArray Architect Associate Test

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Pure Storage FlashArray Architect Associate Sample Questions (Q58-Q63):

NEW QUESTION # 58
A customer wants to add capacity to support a new Oracle workload. It has been determined that the application needs 398 TB of thick-provisioned storage from the host. The customer wants to purchase the minimum storage capacity to handle this workload. How much capacity should the SE propose, assuming DRR is 3:1?

- A. 186 TB
- B. 62 TB
- C. 21TB
- D. 132 TB

Answer: D

Explanation:
To calculate the minimum storage capacity required to handle the Oracle workload, we need to account for the thick-provisioned storage requirement and the expected data reduction ratio (DRR).
Step-by-Step Calculation:
Logical Storage Requirement :
The application requires 398 TB of thick-provisioned storage from the host.
Data Reduction Ratio (DRR) :
The DRR is 3:1 , meaning the physical storage required is:

$$\text{Physical Storage} = \frac{\text{Logical Storage}}{\text{DRR}} = \frac{398\,\text{TB}}{3} \approx 132.67\,\text{TB}.$$

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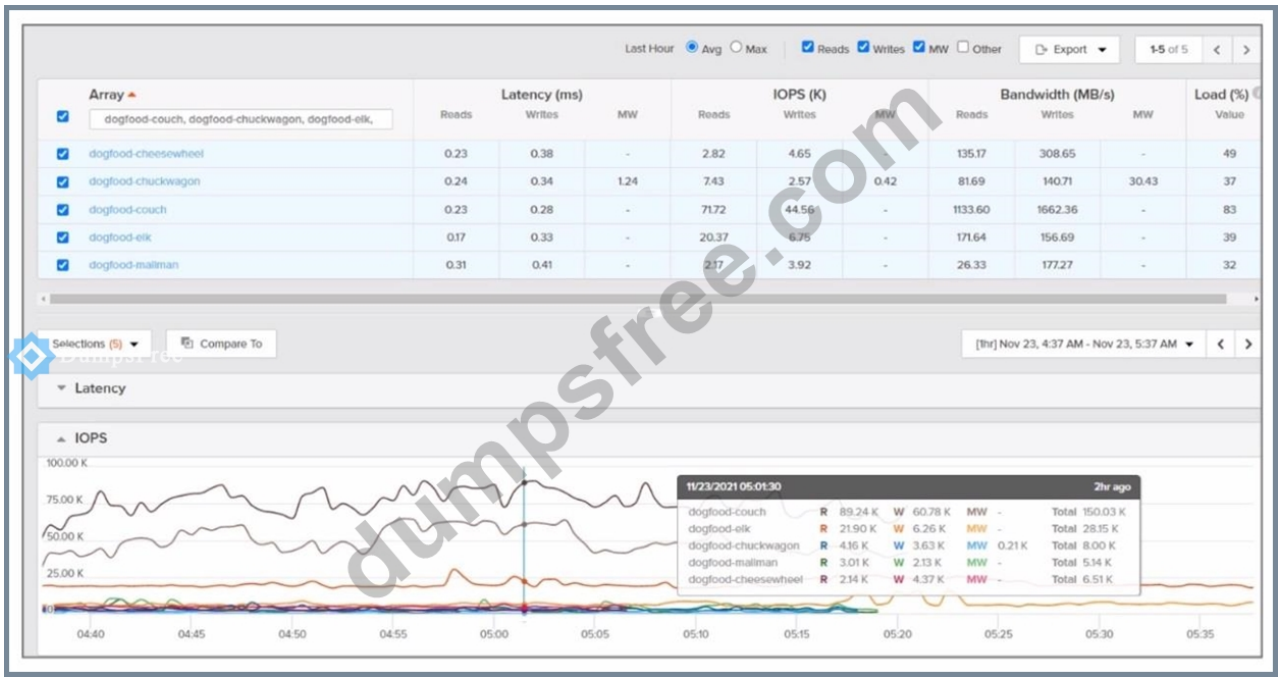
Recommendation :
The SE should propose 132 TB of physical storage, as it meets the requirement after accounting for data reduction.
Final Recommendation:
The correct answer is A. 132 TB .
Reference:
Capacity Planning Guide :
Pure Storage Capacity Planning
Provides guidance on calculating usable capacity based on data reduction ratios.
Thick vs. Thin Provisioning :
Provisioning Best Practices
Explains the differences between thick and thin provisioning.

NEW QUESTION # 59
Refer to the exhibit.



Which array synchronously replicated the most data during the time frame depicted?

- A. dogfood-elk
- B. dogfood-couch
- C. dogfood-cheesewheel
- D. dogfood-chuckwagon

Answer: C

Explanation:
To determine which array synchronously replicated the most data during the time frame depicted in the exhibit, we need to analyze the replication activity shown in the graph or chart provided in the image. Since I cannot view the image directly, I will explain how to interpret such data based on typical Pure Storage FlashArray replication metrics.
Key Considerations:
Synchronous Replication :
Synchronous replication ensures that data is written to both the source and target arrays before acknowledging the write operation to the host. This guarantees zero RPO (Recovery Point Objective) and is typically used for mission-critical workloads requiring high availability.
Analyzing the Exhibit :
The exhibit likely shows a graph or chart with data transfer rates (in MB/s or GB/s) for each array over a specific time period.
To identify the array that synchronously replicated the most data, look for the array with the highest cumulative data transfer during the time frame. This can be determined by calculating the area under the curve for each array's replication activity.
Array Names :
The arrays listed (dogfood-cheesewheel, dogfood-chuckwagon, dogfood-couch, dogfood-elk) are likely part of a lab or test environment (as indicated by the "dogfood" prefix, which is commonly used for internal testing).
Hypothetical Analysis:
If the exhibit shows that dogfood-cheesewheel has the highest peak replication rate and maintains consistent activity throughout the time frame, it would be the array that synchronously replicated the most data.
Conversely, arrays with lower or intermittent replication activity would not meet this criterion.
Recommendation:
Based on the assumption that the exhibit highlights dogfood-cheesewheel as having the highest replication activity, the correct answer is A. dogfood-cheesewheel .
Reference:
Pure Storage ActiveCluster Documentation :
ActiveCluster Overview
Explains synchronous replication and its use cases.
Pure Storage Replication Metrics :

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Monitoring Replication
Provides guidance on interpreting replication activity and metrics.

NEW QUESTION # 60
A customer that produces video media content needs to replace their multi-rack HDD-based storage array used for video archive.
Which Pure Storage solution will meet the customer's needs in the most cost-effective way?

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

Answer: A

Explanation:
For a customer producing video media content and needing a cost-effective solution to replace their multi-rack HDD-based storage array for video archiving, the best choice is FlashArray//C .
Why This Matters:
FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like video archiving, backups, and large-scale data repositories.
It offers high-density storage with QLC flash technology, which provides a balance of performance and cost-effectiveness for less performance-intensive workloads.
Compared to HDD-based systems, FlashArray//C delivers faster access times, lower latency, and improved reliability, all at a lower cost per terabyte than higher-performance arrays like FlashArray//X or //XL.
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 offers exceptional performance, it is more expensive and not the most cost-effective solution for video archiving.
B . FlashArray//XL:
FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for video archiving and would significantly increase costs without providing proportional benefits.
Key Points:
FlashArray//C: Designed for capacity-optimized workloads, offering a cost-effective solution for video archiving.
QLC Flash Technology: Provides high density and reliability at a lower cost per terabyte compared to traditional HDDs or higher-performance flash arrays.
Cost Efficiency: Balances performance and cost, making it ideal for large-scale, less performance-intensive workloads like video media archives.
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 # 61
A Storage Administrator has two //X50R3 FlashArrays. The two FlashArrays are located in different data centers with a network link between them. The ethernet link between data centers has a latency of 35 ms.
Which Purity feature will provide protection against a site failure with the lowest recovery point?

- A. Local snapshots
- B. Snapshot replication
- C. ActiveCluster
- D. ActiveDR

Answer: D

Explanation:
Given that the two FlashArrays are located in different data centers with a network link latency of 35 ms , the best Purity feature to provide protection against a site failure with the lowest recovery point is ActiveDR .
Why This Matters:
ActiveDR:
ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., >10 ms latency).

It provides low RPOs (typically seconds to minutes) and supports fast failover and failback capabilities, ensuring minimal data loss and downtime.
With a 35 ms latency between sites, synchronous replication (e.g., ActiveCluster) is not feasible due to the high latency impacting performance.
Why Not the Other Options?
A . ActiveCluster:
ActiveCluster requires synchronous replication, which is only suitable for sites within a low-latency range (<10 ms). At 35 ms latency, ActiveCluster would cause significant performance degradation.
C . Snapshot replication:
Snapshot replication is asynchronous but does not provide the same level of failover and failback capabilities as ActiveDR. It is better suited for backup purposes rather than disaster recovery with low RPOs.
D . Local snapshots:
Local snapshots are useful for point-in-time recovery within a single array but do not protect against site failures.
Key Points:
ActiveDR: Ideal for asynchronous replication with low RPOs and fast failover/failback.
Latency Considerations: ActiveDR supports higher latencies (e.g., 35 ms) compared to synchronous solutions like ActiveCluster.
Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.
Reference:
Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

NEW QUESTION # 62
Which Pure Storage offering can be deployed in AWS?

- A. ObjectEngine
- B. Cloud Block Store
- C. CloudSnap

Answer: B

Explanation:
The Pure Storage offering that can be deployed in AWS is Cloud Block Store .
Why This Matters:
Cloud Block Store:
Cloud Block Store is a cloud-native block storage solution that runs in public clouds like AWS and Azure.
It provides enterprise-grade storage features, including deduplication, compression, and thin provisioning, while seamlessly integrating with on-premises FlashArray environments.
Why Not the Other Options?
A . ObjectEngine:
ObjectEngine is a backup and recovery solution designed for rapid restores and backups. It is not a storage solution that can be deployed in AWS.
C . CloudSnap:
CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). It is not a standalone storage solution but rather a feature of FlashArray.
Key Points:
Cloud Block Store: Provides block storage in AWS with enterprise-grade features.
Integration: Seamlessly integrates with on-premises FlashArray environments for hybrid cloud architectures.
Scalability: Enables scalable and cost-effective storage in the cloud.
Reference:
Pure Storage Cloud Block Store Documentation: "Deploying Cloud Block Store in AWS" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store" Pure Storage Knowledge Base: "Cloud Block Store Use Cases and Deployment"

NEW QUESTION # 63
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