

Pure Storage FAAA_004 Questions - Perfect Exam Preparation [2025]



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Pure Storage FlashArray Architect Associate Sample Questions (Q15-Q20):

NEW QUESTION # 15

A potential healthcare customer wants to move to a modern storage array for their medical records database. They need the fastest possible array as their workload is highly transactional.
Which solution should an SE recommend?

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

Answer: C

Explanation:

To meet the healthcare customer's requirement for the fastest possible array for a highly transactional medical records database, FlashArray//XL is the optimal choice. Here's why:

Analysis of FlashArray Models:

FlashArray//XL :

The FlashArray//XL is Pure Storage's highest-performance all-flash storage array, designed for mission-critical, high-transaction workloads that demand ultra-low latency and maximum throughput.

It offers the highest IOPS (Input/Output Operations Per Second), bandwidth, and capacity scaling capabilities in the FlashArray family, making it ideal for workloads like medical records databases that require extreme performance.

With its advanced NVMe architecture and DirectFlash Modules, FlashArray//XL delivers sub-millisecond latency and exceptional performance consistency, which are critical for transactional workloads.

FlashArray//X :

The FlashArray//X is a high-performance all-flash array but is positioned below the FlashArray//XL in terms of raw performance and scalability.

While it is suitable for most enterprise workloads, it may not provide the same level of performance as FlashArray//XL for highly transactional databases with demanding I/O requirements.

FlashArray//C :

The FlashArray//C is optimized for capacity and cost efficiency rather than raw performance.

It uses QLC NAND flash technology, which is more cost-effective but has lower endurance and performance compared to the TLC NAND used in FlashArray//X and FlashArray//XL.

This makes FlashArray//C unsuitable for highly transactional workloads like a medical records database.

Recommendation:

Given the customer's need for the "fastest possible array" and the highly transactional nature of their workload, FlashArray//XL is the best recommendation. Its ability to deliver consistent, low-latency performance at scale ensures that the medical records database will perform optimally under heavy transactional loads.

Reference:

FlashArray//XL Product Overview :

Pure Storage FlashArray//XL

Details the performance and use cases for FlashArray//XL.

FlashArray//X Product Overview :

Pure Storage FlashArray//X

Explains the capabilities of FlashArray//X for enterprise workloads.

FlashArray//C Product Overview :

Pure Storage FlashArray//C

Highlights the cost-efficient design of FlashArray//C for capacity-focused workloads.

NEW QUESTION # 16

What metric is used to compute billing when customers leverage the Evergreen//One offering?

- A. Total capacity installed
- B. Raw capacity consumed
- **C. Effective capacity consumed**
- D. Capacity provisioned to hosts

Answer: C

Explanation:

When customers leverage the Evergreen//One offering , billing is based on the effective capacity consumed .

Why This Matters:

Effective Capacity Consumed:

Evergreen//One is a subscription-based model where customers pay for the logical capacity they consume after applying data reduction techniques like deduplication, compression, and pattern removal.

This ensures customers only pay for the actual usable capacity they need, aligning with Pure Storage's commitment to delivering predictable and cost-effective storage solutions.

Why Not the Other Options?

A . Total capacity installed:

Billing is not based on the total raw capacity installed in the array, as this does not reflect the actual usable capacity after data reduction.

B . Raw capacity consumed:

Raw capacity refers to the physical storage used before applying data reduction. Evergreen//One focuses on effective capacity, not raw capacity.

D . Capacity provisioned to hosts:

Provisioned capacity refers to the logical space allocated to hosts, which may include unused or overprovisioned space. Billing is based on the actual consumed capacity.

Key Points:

Effective Capacity: Reflects the logical capacity consumed after data reduction.

Subscription Model: Aligns with Evergreen//One's focus on predictable and flexible billing.

Data Reduction: Deduplication, compression, and pattern removal optimize storage efficiency, reducing costs for customers.

Reference:

Pure Storage Evergreen//One Documentation: "Understanding Billing Metrics" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen//One Billing Works"

NEW QUESTION # 17

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

Answer: C

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 # 18

Which Pure Storage offering allows customers to own their array hardware while paying for storage on a subscription basis?

- A. Cloud Block Store
- B. Evergreen/One
- **C. Evergreen/Flex**
- D. Evergreen/Foundation

Answer: C

Explanation:

The Evergreen/Flex offering allows customers to own their array hardware while paying for storage on a subscription basis .

Why This Matters:

Evergreen/Flex:

This model combines the benefits of ownership with the flexibility of a subscription. Customers own the hardware outright but pay for storage capacity and services (e.g., maintenance, upgrades) on a subscription basis.

It provides predictable costs and access to Pure Storage's Evergreen architecture, ensuring long-term value and future-proofing.

Why Not the Other Options?

A . Evergreen/Foundation:

Evergreen/Foundation is a traditional purchase model where customers buy the hardware and software upfront. It does not involve a subscription-based payment structure.

B . Evergreen/One:

Evergreen/One is a fully managed subscription service where customers do not own the hardware. Instead, they lease the equipment and pay for storage as a service.

D . Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds (e.g., AWS, Azure). It does not involve owning on-premises hardware.

Key Points:

Ownership: Customers retain ownership of the hardware.

Subscription Flexibility: Pay for storage and services on a subscription basis.

Predictable Costs: Aligns with budgeting and financial planning goals.

Reference:

Pure Storage Evergreen/Forever Documentation: "Understanding Evergreen/Flex" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen/Flex Works"

NEW QUESTION # 19

A customer wants to have more insight into and control of their Pure Storage FlashArray and VMware environment from a single user interface. What does the customer need to do to enable this capability in their environment?

- A. Ensure all VMware API for Array Integration (VAAI) primitives are enabled
- B. Install Pure Storage SRA for VMware Site Recovery Manager (SRM)
- **C. Configure FlashArray Management Pack for vRealize Operations Manager**
- D. Log in to the FlashArray GUI and install the plugin for vSphere Client

Answer: C

Explanation:

To gain more insight and control over their Pure Storage FlashArray and VMware environment from a single user interface, the customer should configure the FlashArray Management Pack for vRealize Operations Manager (vROps) . Here's why:

Analysis of Options:

A . Ensure all VMware API for Array Integration (VAAI) primitives are enabled :

VAAI is a set of APIs that offloads storage tasks from the ESXi host to the storage array, improving performance and efficiency. However, it does not provide a unified interface for managing both FlashArray and VMware environments.

B . Log in to the FlashArray GUI and install the plugin for vSphere Client :

While the FlashArray plugin for vSphere Client provides some integration, such as provisioning and monitoring FlashArray volumes directly from the vSphere Client, it does not offer comprehensive visibility and control over both environments from a single interface.

C . Configure FlashArray Management Pack for vRealize Operations Manager :

The FlashArray Management Pack for vROps integrates Pure Storage FlashArray with VMware vRealize Operations Manager, enabling centralized monitoring, analytics, and management of both environments from a single pane of glass.

This solution provides deep insights into storage performance, capacity utilization, and health metrics, making it the ideal choice for the customer's requirement.

D . Install Pure Storage SRA for VMware Site Recovery Manager (SRM) :

The Pure Storage Storage Replication Adapter (SRA) is used for disaster recovery orchestration with VMware SRM. It does not

provide a unified interface for managing FlashArray and VMware environments.

Recommendation:

The correct answer is C. Configure FlashArray Management Pack for vRealize Operations Manager , as it fulfills the customer's need for a single user interface to manage both FlashArray and VMware environments.

Reference:

Pure Storage FlashArray Management Pack for vROps Documentation :

FlashArray Management Pack for vROps

Explains how to integrate FlashArray with vROps for unified monitoring and management.

Pure Storage VMware Integration Overview :

Pure Storage VMware Integration

Provides an overview of Pure Storage's VMware integration solutions.

NEW QUESTION # 20

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