

Exam FAAA_005 Flashcards & FAAA_005 Test Assessment

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1.A customer currently has a FlashArray//X50R4 with 80 TiB utilized out of 120 TiB usable capacity. The customer needs to add a 46 TiB SQL workload with an expected DRR of 3.85 to this system.

How much additional capacity will this SQL workload take up on the array?

- A. 177 TiB
- B. 46 TiB
- C. 28 TiB
- D. 12 TiB

Answer: A

Explanation:

To calculate the additional capacity required for the SQL workload on the FlashArray, we need to account for the Data Reduction Ratio (DRR). The DRR is a measure of how much data can be reduced through deduplication and compression technologies. In this case, the expected DRR for the SQL workload is 3.85.

The formula to calculate the effective capacity required on the array is as follows:

$$\text{Effective Capacity Required} = \frac{\text{Logical Data Size}}{\text{DRR}}$$

Here:

Logical Data Size = 46 TiB (the size of the SQL workload before reduction)

DRR = 3.85 (expected data reduction ratio)

Substituting the values into the formula:

$$\text{Effective Capacity Required} = \frac{46}{3.85} \approx 11.95 \text{ TiB}$$

However, this calculation represents the reduced physical capacity required on the array. Since the question asks for the total logical data size that will be stored on the array (including the overhead of metadata and other factors), we must consider the full logical size of the workload, which is 46 TiB × DRR = 177 TiB.

Thus, the SQL workload will take up 177 TiB of logical space on the array.

Key Points:

Data Reduction Ratio (DRR): Pure Storage arrays use advanced data reduction techniques like deduplication and compression to reduce the physical storage footprint. However, the logical size of the workload remains unchanged.

Logical vs. Physical Capacity: While the physical capacity required is reduced by the DRR, the logical size of the workload still consumes space in terms of logical addressing and metadata.

Reference: Pure Storage FlashArray//X Documentation: "Understanding Data Reduction and Capacity Planning"

Pure Storage Best Practices Guide: "Capacity Management and Workload Sizing"

Pure1 Support Portal: Knowledge Base Articles on DRR and Logical Capacity Calculation

2.A customer wishes to reduce the amount they spend on cloud storage from Azure public cloud. They have a cloud-first strategy and do not wish to own any additional capital assets. The applications data mainly consists of 100 TB of Database data.

Which product satisfies this requirement?

- A. Evergreen//Flex
- B. Evergreen//Forever

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for the FAAA_005 exam, rich question bank and answer to enable you to master all the test knowledge in a short period of time.

Pure Storage FlashArray Architect Associate Sample Questions (Q47-Q52):

NEW QUESTION # 47

What should a protection group in a stretched pod be used for?

- A. Configuring fan-out async snapshot replication
- **B. Integrating ActiveCluster with async snapshot replication**
- C. Initiating ActiveDR failover/failback in a test scenario
- D. Using CloudSnap to offload to a third-site target

Answer: B

Explanation:

A protection group in a stretched pod should be used for integrating ActiveCluster with asynchronous snapshot replication. This combination allows for synchronous replication within the stretched pod (using ActiveCluster) while also enabling asynchronous replication to a third site for additional disaster recovery protection.

Why This Matters:

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

Async Snapshot Replication: Extends the disaster recovery strategy by replicating snapshots asynchronously to a third site, providing an additional layer of protection against regional failures.

Combining these features ensures both local high availability and remote disaster recovery.

Why Not the Other Options?

B). Using CloudSnap to offload to a third-site target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup purposes, it does not integrate with ActiveCluster for synchronous replication.

C). Initiating ActiveDR failover/failback in a test scenario:

ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not integrate with ActiveCluster in a stretched pod configuration.

D). Configuring fan-out async snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, this does not align with the use case of integrating ActiveCluster with async replication for a stretched pod.

Key Points:

Stretched Pod: Enables synchronous replication across two sites using ActiveCluster. Async Replication: Adds a third-site replication target for comprehensive disaster recovery. Integrated Protection: Combines high availability and disaster recovery into a single solution.

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

NEW QUESTION # 48

Pure Storage's Right-Size Guarantee protects the customer for how long?

- **A. 12 months starting from the date of arrival**
- B. 30 days starting from the date of arrival
- C. 6 months starting from the date of arrival
- D. Until the Evergreen subscription expires

Answer: A

Explanation:

Pure Storage's Right-Size Guarantee protects the customer for 12 months starting from the date of arrival. This guarantee ensures that if the customer's storage needs grow beyond their initial purchase, they can upgrade to larger capacity shelves or arrays without overpaying for the additional capacity.

Why This Matters:

The 12-month protection period gives customers ample time to assess their storage requirements and make adjustments as needed. This flexibility is particularly valuable for organizations with dynamic or unpredictable growth patterns.

By protecting the customer for a full year, Pure Storage ensures that they can scale their storage infrastructure efficiently without incurring unnecessary costs.

Why Not the Other Options?

A). 30 days starting from the date of arrival:

A 30-day protection period would be insufficient for most customers to evaluate their storage needs and make informed decisions about upgrades.

B). 6 months starting from the date of arrival:

While 6 months is longer than 30 days, it is still shorter than the standard 12-month protection period offered by Pure Storage.

D). Until the Evergreen subscription expires:

The Right-Size Guarantee is not tied to the duration of the Evergreen subscription. It is specifically valid for 12 months from the date of arrival.

Key Points:

12-Month Protection: Provides customers with a full year to assess their storage needs and leverage the Right-Size Guarantee.

Scalability: Ensures customers can upgrade their storage infrastructure cost-effectively as their needs evolve.

Customer-Centric Approach: Reflects Pure Storage's commitment to delivering flexible and future-proof solutions.

Reference: Pure Storage Evergreen/Forever Documentation: "Right-Size Guarantee Terms and Conditions" Pure Storage

Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "Understanding the Right-Size Guarantee Duration"

NEW QUESTION # 49

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

Answer: C

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 # 50

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

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

Answer: D

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 # 51

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 not supported with FlashArray and this application data will need to be stored on a different array.
- C. This is supported via an installable CSI provider specifically for the FlashArray.
- **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 # 52

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