

FAAA_005 Prüfungsinformationen, FAAA_005 Antworten

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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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Pure Storage FlashArray Architect Associate FAAA_005 Prüfungsfragen mit Lösungen (Q52-Q57):

52. Frage

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

Antwort: C

Begründung:

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"

53. Frage

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 Pure's Portworx offering.**
- D. This is supported via an installable CSI provider specifically for the FlashArray.

Antwort: C

Begründung:

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"

54. Frage

What does Pure Storage's Right-Size Guarantee promise?

- A. The performance of the FlashArray model
- B. The Data Reduction Rate by workload
- C. The customer's Total Efficiency Ratio
- **D. The effective capacity of the FlashArray**

Antwort: D

Begründung:

Pure Storage's Right-Size Guarantee promises the effective capacity of the FlashArray, ensuring that customers receive the logical capacity they expect based on their workload's data reduction profile.

Why This Matters:

Effective Capacity:

Effective capacity refers to the logical capacity available after applying data reduction techniques like deduplication, compression, and pattern removal.

The Right-Size Guarantee ensures that customers achieve the expected effective capacity for their workloads, aligning with Pure Storage's commitment to delivering predictable and reliable storage solutions.

Customer Assurance:

If the actual effective capacity does not meet expectations, the customer can work with their SE to address the issue, potentially adjusting their subscription or configuration.

Why Not the Other Options?

A). The performance of the FlashArray model:

The Right-Size Guarantee does not specifically address performance metrics like latency or IOPS. It focuses on capacity-related assurances.

C). The Data Reduction Rate by workload:

While data reduction contributes to effective capacity, the guarantee is not tied to a specific data reduction rate. Instead, it ensures the overall effective capacity meets expectations.

D). The customer's Total Efficiency Ratio:

The Total Efficiency Ratio combines data reduction and other factors but is not the focus of the Right-Size Guarantee.

Key Points:

Effective Capacity: The guarantee ensures customers receive the expected logical capacity based on data reduction.

Data Reduction Techniques: Deduplication, compression, and pattern removal contribute to effective capacity.

Customer Support: Customers can collaborate with their SE if the guaranteed capacity is not achieved.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding the Right-Size Guarantee" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

55. Frage

A customer notices a low data reduction ratio upon initial data ingest.

Which Purity data reduction technique will help increase the data reduction ratio over time?

- A. Capacity consolidation and cloning
- B. Snapshot cleanup and garbage collection
- C. RAID-HA protection and AES-256 encryption
- **D. Deep deduplication and deep compression**

Antwort: D

Begründung:

If a customer notices a low data reduction ratio upon initial data ingest, the Purity data reduction technique that will help increase the data reduction ratio over time is deep deduplication and deep compression.

Why This Matters:

Deep Deduplication and Deep Compression:

Purity//FA (the operating system for FlashArray) applies deduplication to eliminate duplicate data blocks and compression to reduce the size of unique data blocks.

These techniques are applied continuously as new data is written to the array. Over time, as more data is ingested and patterns emerge, the effectiveness of deduplication and compression increases, leading to a higher data reduction ratio.

For example, deduplication becomes more effective as the dataset grows and more duplicates are identified. Similarly, compression benefits from identifying repetitive patterns in larger datasets.

Why Not the Other Options?

B). Snapshot cleanup and garbage collection:

Snapshot cleanup and garbage collection are maintenance processes that reclaim space from deleted snapshots or unused data blocks. While these processes free up space, they do not directly contribute to increasing the data reduction ratio.

C). Capacity consolidation and cloning:

Capacity consolidation refers to combining workloads onto fewer arrays, and cloning creates space-efficient copies of volumes.

While cloning leverages data reduction techniques, it does not inherently improve the overall data reduction ratio for existing data.

D). RAID-HA protection and AES-256 encryption:

RAID-HA (high availability) ensures data redundancy, and AES-256 encryption secures data. Neither of these features impacts the data reduction ratio.

Key Points:

Deep Deduplication and Compression: Continuously optimize storage efficiency as more data is ingested.

Data Reduction Ratio: Improves over time as deduplication identifies duplicates and compression reduces unique data.

Purity//FA Automation: These techniques are fully automated and do not require manual intervention.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction in Purity//FA" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "How Deduplication and Compression Work in FlashArray"

56. Frage

A System Administrator has a FlashArray//X70R3. They need to add a backup element as part of their data protection strategy.

They have the following requirements:

* The solution should be offsite

- * Cost needs to be kept as low as possible
- * The backup needs to be stored in a different location from their current FlashArray
- * Restore times are not a concern

Which solution should the SE recommend to the System Administrator?

- A. ActiveDR to a FlashArray//C60
- **B. CloudSnap to a public cloud provider**
- C. ActiveCluster to a FlashArray//C60

Antwort: B

Begründung:

The System Administrator requires an offsite backup solution that is cost-effective, stores data in a different location from the current FlashArray, and does not prioritize restore times. The best solution to recommend is CloudSnap to a public cloud provider.

Why This Matters:

CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.

It is highly cost-effective because customers only pay for the cloud storage they use, and it eliminates the need for additional on-premises hardware.

Since restore times are not a concern, CloudSnap's slower restore process compared to on-premises solutions is acceptable.

Why Not the Other Options?

A). ActiveCluster to a FlashArray//C60:

ActiveCluster provides synchronous replication for high availability but does not meet the requirement for an offsite backup solution. Additionally, it is more expensive than CloudSnap.

B). ActiveDR to a FlashArray//C60:

ActiveDR provides asynchronous replication for disaster recovery but requires additional hardware (FlashArray//C60), which increases costs. It is less cost-effective than CloudSnap for backup purposes.

Key Points:

Cost Efficiency: CloudSnap leverages cloud storage, minimizing upfront and ongoing costs. Offsite Storage: Ensures backups are stored in a different location from the primary FlashArray. Restore Times: CloudSnap's slower restore process is acceptable given the customer's requirements.

Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Backup Solution for Your Workload"

57. Frage

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