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Exam : **FAAA_005**

Title : Pure Storage FlashArray
Architect Associate

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Pure Storage FlashArray Architect Associate Sample Questions (Q31-Q36):

NEW QUESTION # 31
What metric is used to compute billing when customers leverage the Evergreen//One offering?

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

Answer: A

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

Answer: C

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

Answer: D

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:
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:
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

NEW QUESTION # 34
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. Adding more network ports
- B. Adding a second shelf of NVMe DirectFlash modules
- C. Upgrading the controller to the //X90R3 model

Answer: B

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 # 35
A company has two data centers that are 30 miles apart with a round trip latency of 4ms.
What Pure Storage software will allow the lowest RPO disaster recovery strategy between the two data centers?

- A. Purity Snapshot Replication
- B. Purity Snapshots
- C. Purity ActiveCluster
- D. Pure1 Manage

Answer: A

Explanation:
To achieve the lowest RPO (Recovery Point Objective) disaster recovery strategy between two data centers located 30 miles apart with a round-trip latency of 4ms, Purity Snapshot Replication is the best choice.
Here's why:
Analysis of Options:
A). Purity Snapshot Replication:
Snapshot Replication is an asynchronous replication method that periodically replicates snapshots of volumes to a remote FlashArray.
With a round-trip latency of 4ms, Snapshot Replication can achieve very low RPOs (typically seconds to minutes), making it suitable for disaster recovery in this scenario.
B). Purity ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two arrays.
While ActiveCluster offers zero RPO and zero RTO, it is typically limited to shorter distances due to latency constraints. At 30 miles and 4ms latency, ActiveCluster may still work but is less optimal compared to Snapshot Replication for disaster recovery.
C). Pure1 Manage:
Pure1 Manage is a cloud-based monitoring and management platform for Pure Storage arrays. It does not provide replication or disaster recovery capabilities.
D). Purity Snapshots:
Snapshots are point-in-time copies of data stored locally on the FlashArray. They do not provide replication to a remote site and are therefore unsuitable for disaster recovery.
Recommendation:
The correct answer is
A). Purity Snapshot Replication, as it provides the lowest RPO for disaster recovery over a 30-mile distance with 4ms latency.
Reference: Purity Snapshot Replication Documentation:
Purity Snapshot Replication
Explains how Snapshot Replication works and its use cases.
Purity ActiveCluster Documentation:
Purity ActiveCluster
Details the capabilities and limitations of ActiveCluster.

NEW QUESTION # 36
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