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Exam : FAAA_005

Title : Pure Storage FlashArray
Architect Associate

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>> FAAA_005日本語対策 <<

Pure Storage FAAA_005認証pdf資料 & FAAA_005トレーニング資料

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Pure Storage FlashArray Architect Associate 認定 FAAA_005 試験問題 (Q42-Q47):

質問 # 42

A customer is in the very early stages of designing a storage solution at a greenfield site.

They wish to use NVMe-TCP connectivity and require approximately:

- * 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches.
- * The dedicated SAN switches support up to 25 Gbps connectivity.

What is the minimum number of Ethernet ports in total they should connect from the FlashArray to the SAN switches while still ensuring resiliency?

- **A. 0**
- B. 1
- C. 2
- D. 3

正解: A

解説:

To achieve 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches, while ensuring resiliency, the customer must connect a sufficient number of Ethernet ports from the FlashArray to the SAN switches. Given that the dedicated SAN switches support up to 25 Gbps connectivity per port, the calculation is as follows:

Throughput Requirement:

The customer requires 100 Gbps of raw throughput.

Each Ethernet port provides 25 Gbps of bandwidth.

Number of Ports Needed:

To meet the 100 Gbps requirement:

Resiliency Requirement:

Resiliency ensures that the solution can tolerate failures (e.g., switch or link failures). To achieve this, the customer must double the number of ports to provide redundant paths.

Therefore, the total number of ports required is: $4 \times 2 = 8$ ports.

Why Not the Other Options?

B).2:

Two ports would only provide 50 Gbps of raw throughput (2×25 Gbps), which does not meet the 100 Gbps requirement. Additionally, there would be no redundancy, violating the resiliency requirement.

C).4:

Four ports would meet the 100 Gbps throughput requirement but would lack redundancy, making the solution vulnerable to failures.

D).16:

Sixteen ports would exceed the required throughput and redundancy, resulting in unnecessary costs and complexity.

Key Points:

Throughput Calculation: Ensure the total bandwidth meets the 100 Gbps requirement.

Resiliency: Double the number of ports to provide redundant paths for high availability.

Optimization: Use the minimum number of ports that satisfy both throughput and resiliency requirements.

Reference: Pure Storage FlashArray Documentation: "Network Design and Configuration Best Practices" Pure Storage Whitepaper: "NVMe-TCP Connectivity and Performance Optimization" Pure Storage Knowledge Base: "Calculating Required Network Ports for FlashArray"

質問 # 43

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

正解: C

解説:

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"

質問 # 44

An existing customer wants a new set of arrays with the following characteristics:

- * Business critical workload that requires sub millisecond response times
 - * Synchronous replication configured to their secondary site
 - * Offload snapshots to a third location where they do not have a FlashArray Which solution will meet the customer's needs?
- FlashArray//Xs with ActiveDR and CloudSnap

- A. FlashArray//Xs with ActiveCluster and CloudSnap
- B. FlashArray//Cs with ActiveCluster and Snapshot Replication
- C. FlashArray//Cs with ActiveDR and Snapshot Replication

正解: A

解説:

The customer has the following requirements:

Business-critical workload that requires sub-millisecond response times Synchronous replication configured to their secondary site Offload snapshots to a third location where they do not have a FlashArray The best solution to meet these needs is FlashArray//Xs with ActiveCluster and CloudSnap.

Why This Matters:

FlashArray//Xs:

FlashArray//X is optimized for high-performance workloads, delivering sub-millisecond response times required for business-critical applications.

ActiveCluster:

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

CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob), enabling disaster recovery or archival at a third location without requiring an additional FlashArray.

Why Not the Other Options?

B). FlashArray//Cs with ActiveDR and Snapshot Replication:

FlashArray//C is designed for capacity-optimized workloads and does not provide the sub-millisecond response times required for business-critical applications.

ActiveDR provides asynchronous replication, which does not meet the requirement for synchronous replication.

C). FlashArray//Cs with ActiveCluster and Snapshot Replication:

Again, FlashArray//C is not suitable for sub-millisecond response times. Additionally, snapshot replication to a third location is less efficient than CloudSnap for offloading data to the cloud.

Key Points:

FlashArray//Xs: Delivers the high performance required for business-critical workloads. ActiveCluster: Ensures synchronous replication for high availability across two sites. CloudSnap: Provides cost-effective offsite protection by offloading snapshots to the cloud.

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

質問 # 45

A customer has a requirement for 450 TB of block storage to support their tier2 environment where latency is not a concern. The workload is expected to achieve a 4-to-1 data reduction.

Which array and capacity configuration is the minimum required to meet their needs?

- A. FlashArray//C40R3 247 TB
- B. FlashArray//C60R3 878 TB
- C. FlashArray//C60R3 366 TB
- D. FlashArray//X70R3 228 TB

正解: A

解説:

To meet the customer's requirement for 450 TB of block storage with a 4:1 data reduction ratio, we need to calculate the effective usable capacity required and select the appropriate array configuration.

Step-by-Step Calculation:

Effective Usable Capacity Needed:

The workload requires 450 TB of logical storage.

With a 4:1 data reduction ratio, the physical storage required is:

Array Selection:

The selected array must provide at least 112.5 TB of usable capacity after accounting for overhead and RAID protection.

Let's evaluate the options:

A). FlashArray//C40R3 247 TB:

The FlashArray//C40R3 provides 247 TB of raw capacity. After accounting for overhead (typically ~20%), the usable capacity is approximately: $\text{Usable Capacity} = 247\text{TB} \times 0.8 = 197.6\text{TB}$.

This exceeds the required 112.5 TB, making it a valid option.

B). FlashArray//C60R3 878 TB:

The FlashArray//C60R3 provides 878 TB of raw capacity, which is significantly larger than needed.

While it meets the requirement, it is not the minimum configuration.

C). FlashArray//X70R3 228 TB:

The FlashArray//X70R3 provides 228 TB of raw capacity. After overhead, the usable capacity is approximately: $\text{Usable Capacity} = 228\text{TB} \times 0.8 = 182.4\text{TB}$.

While this also meets the requirement, it is more expensive than the C40R3.

D). FlashArray//C60R3 366 TB:

The FlashArray//C60R3 with 366 TB of raw capacity is overkill for this requirement and not cost-effective.

Recommendation:

The FlashArray//C40R3 247 TB provides the minimum required usable capacity while meeting the customer's needs.

Final Recommendation:

The correct answer is

A). FlashArray//C40R3 247 TB.

Reference: FlashArray//C Series Product Overview:

FlashArray//C Series

Details the capacity and use cases for FlashArray//C models.

Capacity Planning Guide:
Pure Storage Capacity Planning
Provides guidance on calculating usable capacity based on data reduction ratios.

質問 # 46

Which FlashArray feature allows snapshots to be sent to a public cloud target?

- A. Cloud Block Store
- **B. CloudSnap**
- C. ActiveCluster

正解: B

解説:

The FlashArray feature that allows snapshots to be sent to a public cloud target is CloudSnap.

Why This Matters:

CloudSnap:

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

It provides a cost-effective and scalable solution for storing backups or archival data in the cloud, ensuring offsite protection and long-term retention.

Public Cloud Integration:

By leveraging public cloud storage, customers can reduce on-premises storage costs while maintaining secure and accessible backups.

Why Not the Other Options?

A). 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 sending snapshots to a public cloud target.

C). ActiveCluster:

ActiveCluster provides synchronous replication between two sites for high availability. It does not involve offloading snapshots to the cloud.

Key Points:

CloudSnap: Offloads snapshots to public cloud storage for cost-effective and scalable backups.

Offsite Protection: Ensures data is securely stored in the cloud for disaster recovery or archival purposes.

Integration: Seamlessly integrates with popular cloud providers like AWS and Azure.

Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Using CloudSnap to Offload Snapshots"

質問 # 47

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