

Pure Storage FlashArray-Storage-Professional Exam Questions - Get Excellent Scores

Pure Certified FlashArray Storage Professional

Question 1: FlashArray Architecture

What type of storage media is used in Pure Storage FlashArray systems?

- A. SATA HDDs
- B. NVMe SSDs
- C. LTO Tape
- D. SAS HDDs

Correct Answer: B. NVMe SSDs

Explanation: Pure Storage FlashArrays use high-performance NVMe-based SSDs, which deliver low latency and high throughput compared to traditional spinning disks.

Question 2: Data Reduction

Which technologies are used by FlashArray to reduce data footprint?

- A. Tiered Storage and RAID
- B. Data Deduplication and Compression
- C. Snapshot Mirroring
- D. Bit-level Replication

Correct Answer: B. Data Deduplication and Compression

Explanation: FlashArray employs always-on inline deduplication and compression to achieve significant data reduction and efficiency.

Question 3: Storage Provisioning

What type of provisioning is used in FlashArray volumes?

- A. Thick provisioning
- B. Thin provisioning
- C. Static provisioning
- D. Tiered provisioning

Correct Answer: B. Thin provisioning

Explanation: Volumes in FlashArray are thin provisioned by default, which means capacity is allocated as needed rather than all at once.

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Pure Storage FlashArray-Storage-Professional Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Data Protection: Covers snapshot management, replication configuration, policy management, SafeMode, and advanced replication technologies such as ActiveDR. Focuses on ensuring data availability, disaster recovery, and protection against data loss.
Topic 2	<ul style="list-style-type: none"> • FA File: Covers configuration and management of FA File services, including DNS setup, Active Directory integration, and protocol access. Focuses on enabling secure and efficient file sharing across the organization.
Topic 3	<ul style="list-style-type: none"> • Administration: Covers core administrative tasks including volume configuration, array management, host connections, third-party integrations, and security protocols. Focuses on best practices for maintaining optimal performance and secure access across the storage environment.
Topic 4	<ul style="list-style-type: none"> • Monitoring: Covers the use of Pure1, GUI, and CLI tools to monitor array health, generate reports, and analyze performance and capacity metrics. Includes data reduction ratios, meta forecasting, and proactive capacity planning.
Topic 5	<ul style="list-style-type: none"> • Troubleshooting: Covers identification and resolution of configuration errors, performance issues, and replication problems using Pure Storage diagnostic tools and alerts. Includes port configuration and predictive support mechanisms to maintain system reliability.

Pure Storage Pure Certified FlashArray Storage Professional Sample Questions (Q61-Q66):

NEW QUESTION # 61

Which of the following statements regarding REST APIv1 and REST APIv2 is true?

- A. REST API 2.x has not yet reached feature parity with REST API 1.x.
- B. REST API 1.x will no longer continue to receive feature enhancements for new Purity features.
- C. REST API 1.x and REST API 2.x operations are not supported side by side, support must be contacted to upgrade to REST API 2.x.

Answer: B

Explanation:

API Evolution: Pure Storage introduced REST API 2.x to provide a more scalable, standardized, and performant way to automate FlashArray management. It uses a different authentication method (OAuth2 with API Clients) compared to the API Token-based method in 1.x.

Feature Freeze on 1.x: As of Purity 6.x and beyond, Pure Storage has designated REST API 1.x as "Legacy." While 1.x is still supported for backward compatibility to ensure older scripts don't break, all new Purity features (such as specialized ActiveDR commands, advanced File Services, or new hardware capabilities) are only developed and exposed via REST API 2.x.

Side-by-Side Support: Contrary to option C, both versions are supported side-by-side on the same array. An administrator can run a script using 1.x for volume creation and another script using 2.x for performance monitoring simultaneously without contacting support.

Feature Parity: REST API 2.x has long since reached and exceeded the capabilities of 1.x. It offers improved filtering, pagination, and a more consistent object model (e.g., /volumes instead of multiple nested endpoints).

Best Practice: Pure Storage strongly recommends that all new automation projects use REST API 2.x to ensure access to the full suite of Purity features and to future-proof infrastructure-as-code (IaC) workflows.

NEW QUESTION # 62

An administrator is preparing an array pair for ActiveDR and is trying to calculate the total minimum bandwidth requirement. What percent of bandwidth above the incoming write rate should be allocated to accommodate for unexpected write bursts and still maintain near-sync RPO?

- A. 30%
- B. 10%
- C. 50%

Answer: A

Explanation:

ActiveDR Bandwidth Sizing: ActiveDR is a continuous, asynchronous replication technology designed to provide near-zero RPO. Because it streams data continuously rather than in discrete snapshot intervals, the bandwidth between the source and target arrays must be able to handle the application's write workload.

Handling Write Bursts: Application workloads are rarely flat; they have peaks and valleys. If you size the bandwidth exactly to the average change rate, any burst in write activity will cause the replication lag to increase, thereby increasing your RPO.

The 30% Rule: Pure Storage best practices and sizing guides recommend providing a 30% buffer (headroom) above the measured average write rate. This extra capacity ensures that during a high-IO period, the replication engine has enough "pipe" to catch up quickly and return to a near-sync state.

Calculation Example: If a workload generates an average of 100 MB/s of new unique data, the administrator should ensure at least 130 MB/s of usable, dedicated bandwidth is available between the sites.

Consequences of Under-sizing: If only 10% (Option A) is used, the array may struggle to recover from even minor bursts, leading to a consistently climbing RPO. 50% (Option B) is often considered safe but can be cost-prohibitive or overkill for standard networking budgets unless the workload is exceptionally volatile.

NEW QUESTION # 63

A storage administrator is troubleshooting a FlashArray that is critically low on space. They have successfully deleted and eradicated a large volume, but used space keeps increasing.

What is a possible cause?

- A. FlashArray workload is too high, and the reclamation process is not keeping up.
- B. Space decrease won't be seen for 1 day, as the volume is kept for 24 hours as a safeguard.
- C. A host is still connected to the volume so space was not released.

Answer: A

Explanation:

Logical vs. Physical Reclamation: When an administrator "Eradicates" a volume, the FlashArray immediately removes the logical reference to that data. However, the physical blocks are not "wiped" instantly. Instead, those blocks are marked as "eligible for reclamation" by Purity's background Garbage Collection (GC) process.

Workload Prioritization: Purity is designed to prioritize Host I/O (production performance) over background system tasks. If the array is under an extremely high workload (high Load Meter percentage), Purity will automatically throttle the Garbage Collection process to ensure the application latency remains as low as possible.

The "Reclamation Lag": If the incoming write rate from the hosts (new data being written) exceeds the speed at which the throttled GC process can reclaim space from the eradicated volume, the "Used Space" metric will continue to trend upward. This is a common scenario when arrays are pushed to their performance or capacity limits simultaneously.

Why Option A is incorrect: The 24-hour safeguard applies to Destroyed volumes (the "Pending Eradication" bucket). Once an administrator manually clicks Eradicate, that safeguard is bypassed, and the space should logically be freed. If the space is still not reflecting as "Free," it is a back-end processing delay, not a timer delay.

Why Option C is incorrect: In the Purity Operating Environment, the array does not require the host to "unmount" or "disconnect" before it can reclaim space. Once the volume is destroyed and eradicated on the array side, those blocks are gone from the array's perspective, regardless of the host's state (though the host will likely experience I/O errors).

NEW QUESTION # 64

A storage administrator is tasked with providing real-time data and alerts to the Network Operations Center (NOC) dashboard. What source should the information come from to provide real-time data?

- A. FlashArray

- B. Pure1
- C. Pure Performance Monitoring

Answer: A

Explanation:

To provide true real-time data and alerts directly to a Network Operations Center (NOC) dashboard, the information must be sourced directly from the FlashArray. The FlashArray's Purity operating environment natively supports real-time data streaming and alerting integrations via protocols like Syslog, SNMP traps, and the local REST API. Polling the array directly or configuring it to push alerts guarantees that the NOC receives instantaneous, up-to-the-second notifications regarding array health, hardware faults, and performance metrics.

Here is why the other options are incorrect:

Pure1 (B): While Pure1 is Pure Storage's powerful, cloud-based monitoring and predictive analytics platform, it relies on phone-home telemetry data. This telemetry is batched and transmitted from the array to the Pure1 cloud on a short polling interval (typically a few minutes). Because of this transmission and processing interval, Pure1 provides near-real-time (lagging by a few minutes) and historical data. It is excellent for global fleet management and predictive support, but not for instantaneous, zero-latency NOC alerting.

Pure Performance Monitoring (A): This is a distractor. There is no standalone product or specific protocol in the Pure Storage ecosystem officially named "Pure Performance Monitoring." Performance monitoring is simply a feature accessed via the FlashArray GUI/CLI or the Pure1 platform.

NEW QUESTION # 65

A network admin is trying to setup Pure1 access and phone home logging on the array.
What port should the admin ensure is opened for the array?

- A. 0
- B. 1
- C. 2

Answer: A

Explanation:

Pure1 and Phone Home: Pure1 is a cloud-based management and monitoring platform. For the FlashArray to communicate its health data, performance metrics, and alerts to Pure Storage, it must be able to "Phone Home." The Power of HTTPS: This communication is encrypted and sent via the HTTPS protocol. Consequently, the standard port for HTTPS, TCP 443, must be opened for outbound traffic on the management network.

Firewall Configuration: The array controllers initiate an outbound connection to the Pure Storage cloud (specifically to destinations like cloud-connect.purestorage.com). Because it is an outbound-initiated connection, most stateful firewalls will allow the return traffic automatically once port 443 is permitted.

Why Option A is incorrect: Port 22 (SSH) is used for secure shell access to the array's CLI. While essential for local administration, it is not used for the automated Phone Home or Pure1 telemetry data stream.

Why Option B is incorrect: Port 8117 was historically used for the "Remote Assist" tunnel in older Purity versions. However, even for Remote Assist, modern Purity versions have transitioned to using port 443 to simplify firewall rules for customers. It is not the standard port for the general Phone Home/Pure1 logging service.

Verification: An administrator can verify connectivity by running the purearray test phonehome command in the CLI. If port 443 is blocked, the test will fail with a connection timeout.

NEW QUESTION # 66

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