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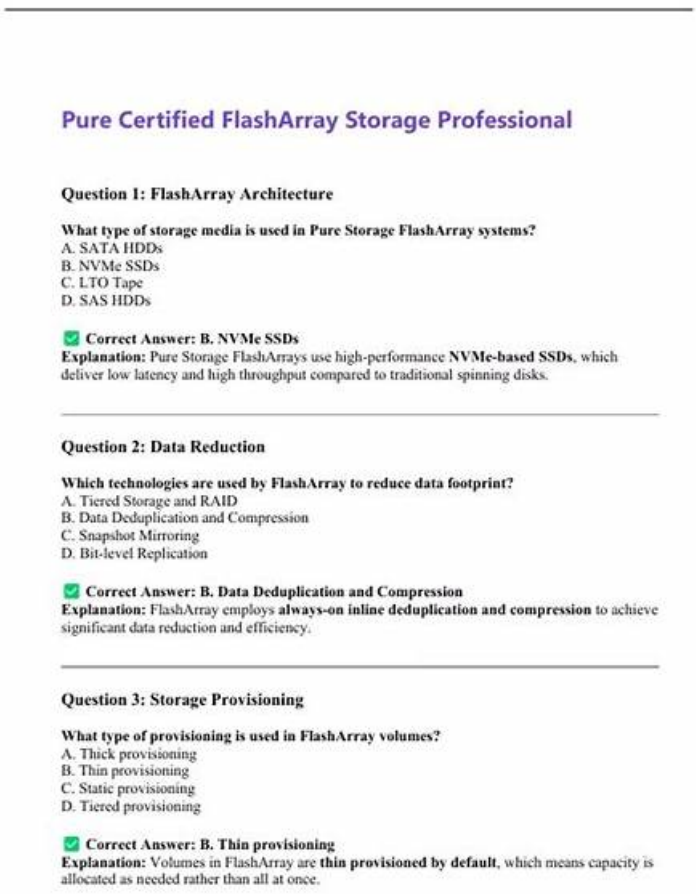

Pure Certified FlashArray Storage Professional

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 Pure Certified FlashArray Storage Professional Sample Questions (Q25-Q30):

NEW QUESTION # 25
Which protection group cannot be ratcheted for SafeMode?

- A. A default protection group
- B. Protection groups with hosts or hostgroups
- C. A protection group without a local snapshot schedule

Answer: C

NEW QUESTION # 26
In reviewing space metrics via the Pure Management GUI, a storage manager notices the total reduction rate is much higher than the Data Reduction Rate (DRR).
What is the reason for this?

- A. The total reduction rate includes thin provisioning, while the Data Reduction Rate (DRR) does not.
- B. The total reduction rate includes snapshot space, while the Data Reduction Rate (DRR) does not.
- C. The total reduction rate includes compression, while the Data Reduction Rate (DRR) does not.

Answer: A

Explanation:
Understanding Data Reduction Rate (DRR): DRR is a measure of the effectiveness of Purity's deduplication and compression algorithms. It compares the amount of data written by the host to the amount of physical space actually occupied on the flash media after these processes have occurred.
Calculation: $\text{DRR} = (\text{Deduplication} \times \text{Compression})$.
Understanding Total Reduction: The Total Reduction metric is a broader "efficiency" value. It represents the ratio of the Total Provisioned (logical) space to the Physical space used.
The "Thin Provisioning" Factor: The primary difference between these two numbers is Thin Provisioning.
FlashArrays are 100% thin-provisioned by default. If a customer creates a 100TB volume but the host only writes 1TB of data, the "Total Reduction" will be massive because it counts all that unwritten, "virtual" space as "saved." The DRR, however, only looks at the 1TB that was actually written and calculates how well it was compressed and deduped.
Why Option C is incorrect: Both metrics generally account for the efficiency of snapshots. However, snapshots contribute to DRR through deduplication (since they share blocks with the source volume). The massive gap between DRR and Total Reduction is almost always mathematically attributed to the "unwritten" space provided by thin provisioning.
Key Takeaway: If your DRR is 5-to-1 but your Total Reduction is 50-to-1, it means your data is compressing/deduping well, but you have also provisioned a significant amount of volume space that hasn't been written to yet.

NEW QUESTION # 27
A customer with an X50R2 array connected to 110V power is due for an upgrade to the latest controller generation.
What is required to allow this upgrade to proceed?

- A. Transition the array to DC power.
- B. Call support to schedule a power supply replacement.
- C. Switch the array to 220v power outlets.

Answer: C

Explanation:
As Pure Storage has iterated through FlashArray generations (moving from //X R2 to R3, R4, and beyond), the power density and performance capabilities of the controllers have increased significantly. Modern high-performance controllers, such as those found in the //X R4 or //XL series, have strict power requirements that often exceed what a standard 110V/120V (Low-Line) circuit can provide.
To support the higher wattage and current draw of modern CPUs and NVRAM modules, Pure Storage requires 200-240V (High-Line) power for its latest generation controllers. If an existing array is currently running on 110V power, it must be migrated to 220V power outlets before the upgrade can proceed. Attempting to run newer, high-spec controllers on 110V power could lead to power supply instability, insufficient cooling performance, or the controllers failing to boot entirely.
Here is why the other options are incorrect:
Call support to schedule a power supply replacement (A): The issue is not a faulty power supply; it is the external electrical infrastructure's inability to provide the necessary voltage/wattage for the new hardware. Replacing the power supply with the same model would not solve the voltage limitation.
Transition the array to DC power (B): While Pure Storage does offer DC power options for specific telco environments, this is not a standard requirement for a typical controller upgrade. Moving to standard high-line AC power (220V) is the standard prerequisite for data center environments.

NEW QUESTION # 28
The administrator needs to remove a volume from a ratcheted protection group.
How can this be accomplished?

- A. Unlock the pgroup by using the CLI.
- B. Contact Pure Storage Support to help unlock the pgroup.
- C. Go to the pgroup in the GUI and unlock the pgroup.

Answer: B

Explanation:
Ratcheted Protection Groups: A "ratcheted" protection group is a security feature used to enforce data retention and prevent the accidental or malicious removal of volumes from a protection policy. Once a protection group is ratcheted, the configuration is essentially "locked." The "Ratchet" Mechanism: When a protection group is ratcheted, Purity prevents any modifications that would decrease the level of protection. This includes preventing the removal of volumes from the group, as removing a volume would stop its scheduled snapshots and replication, thus violating the established security posture.
Security and Compliance: Because ratcheting is often used for compliance (such as SEC Rule 17a-4 or HIPAA) or as a defense against ransomware, it is designed to be difficult to reverse. Neither the standard GUI (Option C) nor the standard CLI (Option B) provides a self-service "unlock" button for a ratcheted group.
The Recovery Path: To remove a volume or change the settings of a ratcheted protection group, a FlashArray administrator must Contact Pure Storage Support. Support engineers have specific, high-level challenge-response procedures to verify the administrator's identity and intent before performing the back-end operations required to "un-ratchet" or modify the group.

NEW QUESTION # 29
During testing of an NFS share, the administrator notes that they are able to mount the share as root but are not able to access files as root.
Where is the incorrect setting causing the issue located?

- A. File System
- B. Export Policy
- C. Managed Directory

Answer: B

Explanation:
The Concept of Root Squash: In the world of NFS, "Root Squashing" is a fundamental security feature. By default, most modern storage systems (including FlashArray File Services) do not trust the "root" user of a remote client. This prevents a user with administrative access on a random laptop or server from gaining full administrative control over the files on the central storage.
Mounting vs. Accessing:
Mounting: This is the process of attaching the remote export to the local file system. If the Export Policy allows the client IP to connect, the mount will succeed.
Accessing: Once mounted, the array evaluates the identity of the user. If Root Squash is enabled, the array "squashes" the root user

(UID 0) and maps it to a non-privileged user (usually nobody or anonymous). Consequently, the client's root user loses their administrative permissions when trying to read/write files.
The Export Policy Setting: The behavior described (able to mount but permission denied for files as root) is almost always caused by the User ID Mapping or Access rules within the Export Policy.
To resolve this, an administrator must edit the specific rule in the Export Policy and enable "No Root Squash" (or change the mapping to allow root access). This tells the FlashArray to honor the client's root identity.
Why Options A and B are incorrect:
Managed Directory: This is where you set the directory structure and quotas, but it doesn't control the protocol-level identity mapping.
File System: While a file system has underlying permissions, if the mount is successful but specifically blocks the root user, the "gatekeeper" is the Export Policy rule.

NEW QUESTION # 30
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