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Pure Storage FlashArray-Storage-Professional Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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 2 | <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 3 | <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 4 | <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. |
| Topic 5 | <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. |

Pure Storage Pure Certified FlashArray Storage Professional Sample Questions (Q48-Q53):

NEW QUESTION # 48

Volume space has increased on a FlashArray and shared space decreased by the same amount. What does this indicate?

- A. Hosts were removed.
- B. Volumes were deleted.
- C. Space reclamation fell behind.

Answer: B

Explanation:

Understanding Space Reporting: To understand this behavior, you have to look at how Purity calculates capacity. Pure Storage uses a data reduction engine where data is deduplicated and compressed.

Volume Space vs. Shared Space:

Volume Space: This represents the unique data belonging to a specific volume that is not shared with any other volume via deduplication or snapshots.

Shared Space: This represents the data that is common across multiple volumes or snapshots. If you have two volumes that are clones of each other, most of that data is "Shared." The "Shift" Mechanism: When a volume is deleted (and potentially eradicated), the data it once shared with other volumes no longer needs to be "shared." Imagine Volume A and Volume B share 100GB of data. That 100GB is accounted for in Shared Space.

If you delete Volume B, that 100GB of data is now only referenced by Volume A.

Consequently, that 100GB is moved from the Shared Space bucket into Volume A's Volume Space bucket.

Net Result: The total physical space used on the array remains the same initially, but the accounting shifts. You see a decrease in Shared Space and an identical increase in the Volume Space of the remaining volumes that held those deduplication references.

NEW QUESTION # 49

What is a potential indicator of incorrect configuration on a Pure Storage FlashArray?

- A. Blinking status LED on the controller
- B. CRC errors on a single port
- C. Unusual spikes in latency or IOPS

Answer: B

Explanation:

Understanding CRC Errors: CRC (Cyclic Redundancy Check) errors occur when the data received at a port does not match the checksum sent by the initiator or switch. In a Pure Storage environment, these are tracked per port and can be viewed via the CLI (purehw list) or the GUI.

Configuration vs. Hardware: While a failing SFP or a damaged fiber cable can cause CRC errors, they are a primary indicator of configuration mismatches in the SAN fabric. Common culprits include:

Port Speed Mismatches: Manually setting a port to 16Gbps when the switch is set to "Auto" or 8Gbps.

Duplex Mismatches: Though rare in modern Fibre Channel, it is a classic Ethernet/iSCSI configuration error.

MTU Mismatches: In iSCSI or NVMe-oF environments, if the FlashArray is configured for Jumbo Frames (MTU 9000) but the switch or host is at MTU 1500, packet fragmentation or CRC-like errors/drops will occur.

Why Option A is incorrect: A blinking status LED on a controller is often part of normal operation (indicating heartbeat or activity).

A solid amber LED would be an indicator of a hardware failure, not necessarily a misconfiguration.

Why Option C is incorrect: While latency spikes can be caused by misconfiguration (like incorrect MPIO settings), they are more commonly symptoms of workload changes, "noisy neighbors," or reaching the physical performance limits of the array. CRC errors are a much more specific diagnostic "smoking gun" for port and fabric configuration issues.

Best Practice: When CRC errors are detected, Pure Storage recommends first checking the physical layer (reseating SFPs/cables) and then verifying that the port speed and protocol settings on the FlashArray match the upstream switch configuration exactly.

NEW QUESTION # 50

An administrator needs to enable Remote Assist (RA) on Purity version 6.8.4 to facilitate remote troubleshooting. Due to security restrictions, only certain commands can be executed on the array.

What type of access should the administrator grant when enabling RA?

- A. Restricted
- B. Elevated
- C. Secured

Answer: A

Explanation:

Remote Assist (RA) Overview: Remote Assist is a secure, customer-initiated tunnel that allows Pure Storage Technical Support Engineers (TSEs) to log into a FlashArray to perform diagnostics and maintenance. It is disabled by default and must be explicitly opened by the customer.

Access Modes in Purity: In modern Purity versions (like 6.8.4), Pure Storage has introduced granular access controls for these support sessions to satisfy enterprise security and compliance requirements (such as SOC2 or HIPAA).

Restricted Access: This mode is specifically designed for high-security environments. When RA is enabled with the Restricted flag, the Support Engineer is limited to a pre-defined subset of non-destructive, read-only, or diagnostic commands. They cannot perform major configuration changes, delete data, or access sensitive metadata without further authorization.

Elevated vs. Secured: * Elevated access (often used during emergency recovery) provides the TSE with broader permissions, including the ability to run system-level scripts and configuration commands that go beyond standard diagnostics.

Secured is often a baseline state but does not imply the specific command-level filtering that "Restricted" does.

Security Best Practice: If a security team mandates that "only certain commands can be executed," Restricted is the correct administrative choice. This ensures that the principle of least privilege is applied even to the vendor's support staff.

NEW QUESTION # 51

What command must an administrator run to use newly installed DirectFlash Modules (DFM)?

- A. `puredrive admit`
- B. `purearray admit drive`
- C. `pureadmin -- admit-drive`

Answer: A

Explanation:

When new DirectFlash Modules (DFMs) or data packs are physically inserted into a Pure Storage FlashArray, the Purity operating environment detects the new hardware but places the drives in an "unadmitted" state. This safety mechanism prevents the accidental incorporation of drives and allows the system to verify the firmware and health of the modules before they are actively used to store data.

To formally accept these drives into the system's storage pool so their capacity can be utilized, the administrator must execute the CLI command `puredrive admit`. Once this command is run, the drive status transitions from "unadmitted" to "healthy," and the array's usable capacity expands accordingly.

Here is why the other options are incorrect:

`pureadmin -- admit-drive (A)`: This is syntactically incorrect. The `pureadmin` command suite is used for managing administrator

accounts, API tokens, and directory services, not for hardware or drive management.

purearray admit drive (B): This is also incorrect syntax. While purearray is used for array-wide settings and status (like renaming the array or checking space), specific drive-level operations are exclusively handled by the puredrive command structure.

NEW QUESTION # 52

How is SAN Time measured?

- A. Average time, measured in milliseconds, that an I/O request spends in the array waiting to be served.
- B. Average time, measured in milliseconds, that an IO request spends waiting to synchronize to the peer array.
- C. Average time, measured in milliseconds, required to transfer data between the initiator and the array.

Answer: C

Explanation:

Understanding Total Latency: In a FlashArray environment, total latency as seen by the host application is the sum of several components. Pure Storage breaks this down into Array Time and SAN Time to help administrators pinpoint where performance bottlenecks exist.

SAN Time Definition: SAN Time represents the latency introduced by the network infrastructure between the host (initiator) and the FlashArray (target). This includes the time spent traveling across Fibre Channel or Ethernet switches, cables, and host bus adapters (HBAs). It is calculated by taking the total round-trip time measured by the host and subtracting the time the FlashArray spent processing the I/O.

Metric Breakdown: * Array Time: The time the FlashArray takes to process the I/O once it hits the front-end ports (Option C describes internal array time).

SAN Time: The transit time for the request to reach the array and the response to return to the host (Option A).

Wait Time: In ActiveCluster environments, there is also "Mirror Latency," which is the time spent synchronizing data to a peer array (Option B).

Troubleshooting Value: If a user reports high latency but the FlashArray GUI shows very low Array Time, the administrator can look at the SAN Time metric. A high SAN Time indicates an issue with the fabric, such as a failing SFP, a congested switch port, or oversubscribed ISLs (Inter-Switch Links).

NEW QUESTION # 53

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