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NVIDIA-Certified Professional AI Networking Sample Questions (Q65-Q70):

NEW QUESTION # 65

What does NetQ leverage (in addition to NVIDIA "What Just Happened" switch telemetry data and NVIDIA DOCA telemetry) to help network operators proactively identify server and application root cause issues?

- A. Packet capture telemetry
- B. Flow telemetry
- **C. Behavioral telemetry**
- D. Application telemetry

Answer: C

Explanation:

NetQ integrates multiple telemetry sources, including WJH, DOCA, and notably, Behavioral Telemetry.

From the NetQ Documentation - Behavioral Telemetry Section:

"Behavioral telemetry in NetQ correlates server and application behavior with network events, offering insights into root cause analysis by detecting anomalies in protocol, path, or performance behavior." This helps identify patterns like:

- * Misbehaving applications causing retransmits.
- * Sudden changes in traffic flows.
- * Latency spikes correlated with app-level issues.

It complements device-level telemetry by introducing intent-based anomaly detection, crucial for proactive operations.

Incorrect Options:

- * Flow telemetry and packet capture offer raw data but not behavioral insights.
- * Application telemetry is too vague and is not the term NetQ uses for this feature.

Reference: NetQ 3.2 Documentation - Behavioral Telemetry

NEW QUESTION # 66

A leading AI research center is upgrading its infrastructure to support large language model projects.

The team is debating whether to implement a dedicated storage fabric for their AI workloads.

Which of the following best explains why a dedicated storage fabric is crucial for this AI network architecture?

Pick the 2 correct responses below

- A. To ensure data security and isolation from other network traffic.
- B. To provide high-bandwidth, low-latency data access that prevents I/O bottlenecks during AI model training.
- C. To enable parallel data access and improve storage performance for distributed AI workloads.
- D. To reduce the overall cost of the storage infrastructure.

Answer: B,C

Explanation:

Modern AI training (especially with LLMs) requires extremely high-speed, parallel access to large datasets. A dedicated storage fabric separates data I/O traffic from the training compute path and avoids contention.

From NVIDIA DGX Infrastructure Reference Architectures:

"Dedicated storage networks eliminate I/O bottlenecks by providing low-latency, high-bandwidth access to distributed storage for large-scale training jobs."

"Parallel access to datasets is key for performance, especially in multi-node, multi-GPU AI clusters." Security (B) is important, but not the core reason for a storage fabric.

Cost (D) is typically increased, not reduced, with dedicated fabrics.

Reference: NVIDIA BasePOD/AI Infrastructure Deployment Guidelines - Storage Section

NEW QUESTION # 67

Which of the following statements are true about AI workloads and adaptive routing?

Pick the 2 correct responses below.

- A. Flow-based load balancing mechanisms increase congestion risk.
- B. AI workloads are made of a small number of volumetric flows called elephant flows.
- C. AI workloads have very high entropy that helps spread traffic evenly without congestion.
- D. ECMP-based load balancing works best for AI workloads.

Answer: A,B

Explanation:

AI workloads, particularly in large-scale training scenarios, are characterized by a small number of high-bandwidth, long-lived flows known as "elephant flows." These flows can dominate network traffic and are prone to causing congestion if not managed effectively.

Traditional flow-based load balancing mechanisms, such as Equal-Cost Multipath (ECMP), distribute traffic based on flow hashes.

However, in AI workloads with low entropy (i.e., limited variability in flow characteristics), ECMP can lead to uneven traffic distribution and congestion on certain paths.

Adaptive routing techniques, which dynamically adjust paths based on real-time network conditions, are more effective in managing AI traffic patterns and mitigating congestion risks.

Reference: Powering Next-Generation AI Networking with NVIDIA SuperNICs

NEW QUESTION # 68

What are the two general user account types in MLNX-OS?

Pick the 2 correct responses below:

- A. admin
- B. enable
- C. monitor
- D. viewer

Answer: A,C

Explanation:

MLNX-OS, the operating system for NVIDIA's networking devices, defines two primary user account types:

admin and monitor. The admin account has full administrative privileges, allowing for complete configuration and management of the system. The monitor account, on the other hand, is designed for users who need to view system configurations and statuses without making any changes. This separation ensures a clear distinction between users who manage the system and those who monitor its operations.

Reference Extracts from NVIDIA Documentation:

* "There are two user roles or account types: admin and monitor. As 'admin', the user is privileged to run all the available commands. As 'monitor', the user can run commands that show system configuration and status, or set terminal settings." MLNX-OS is the network operating system used on NVIDIA's Mellanox Ethernet switches, including the Spectrum family (e.g., Spectrum-4 switches in the Spectrum-X platform), designed for high-performance Ethernet networking in AI and HPC data centers. MLNX-OS provides a command-line interface (CLI) for configuring and managing switch operations, with user accounts controlling access to various commands and functions. The question asks for the two general user account types in MLNX-OS, which define the primary privilege levels for user access.

According to NVIDIA's official MLNX-OS documentation, the two general user account types in MLNX-OS are:

* monitor: This account type has read-only access, allowing users to view configurations, status, and logs but not modify settings. It is used for monitoring and troubleshooting without risking unintended changes.

* admin: This account type has full read-write access, enabling users to view and modify all configurations, execute commands, and manage the switch's operations. It is intended for administrators with complete control over the system.

These two account types represent the primary privilege levels in MLNX-OS, providing a clear distinction between read-only monitoring and full administrative access.

Exact Extract from NVIDIA Documentation:

"MLNX-OS supports two primary user account types for managing switch operations:

* monitor: Users with monitor privileges have read-only access to the system. They can view configuration details, system status, and logs but cannot make changes to the configuration.

* admin: Users with admin privileges have full read-write access, allowing them to configure, manage, and troubleshoot all aspects of the switch, including executing privileged commands. These account types ensure secure and controlled access to the switch's management functions." - NVIDIA MLNX-OS User Manual This extract confirms that options B (monitor) and C (admin) are the correct answers. These account types are the standard privilege levels in MLNX-OS, used to manage access for monitoring and administrative tasks on Spectrum switches, including those in Spectrum-X deployments.

NEW QUESTION # 69

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. `sminfo`
`smquery ND <LID>`
- B. `ibis`
`ibsim <LID>`
- C. `sminfo`
`smquery NI <LID>`
- D. `ibstat`
`sminfo <LID>`

Answer: A

Explanation:

To identify the active Subnet Manager (SM) node in an InfiniBand fabric, the correct command sequence is:

* `sminfo`

* Displays general information about the active SM in the fabric, including its LID.

* `smquery ND <LID>`

* Resolves the Node Description (ND) at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The `sminfo` utility provides the LID of the master SM. Use `smquery ND <LID>` to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

* B (`NI`) is an invalid query type.

* C and D do not identify SMs.

Reference: InfiniBand SM Tools - `sminfo` & `smquery` Usage

NEW QUESTION # 70

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