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Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q27-Q32):

NEW QUESTION # 27

A network engineer analyzes RoCEv2 traffic flows in an AI training cluster and notices that all RoCEv2 packets have the Don't Fragment bit set in the IP header. Why must RoCEv2 set the DF bit in all packets?

- A. to enable Path MTU Discovery so that the optimal packet size can be negotiated
- **B. to prevent IP fragmentation that would break the InfiniBand sequence numbering and ordering guarantees**
- C. to indicate to intermediate switches that the packet contains RDMA traffic requiring special handling
- D. to ensure that packets always take the same path through ECMP routing for consistent latency

Answer: B

Explanation:

RoCEv2 carries InfiniBand transport semantics over UDP/IP, and IP fragmentation would disrupt the expected packet sequencing and ordering behavior required by RDMA. Setting the Don't Fragment bit prevents intermediate devices from fragmenting RoCEv2 packets, preserving reliable RDMA transport behavior across the AI training fabric.

NEW QUESTION # 28

An organization deploys Cisco Nexus switches supporting RoCEv2 traffic. Which QoS behavior is most critical to maintain reliable GPU communication?

- A. Strict packet fragmentation
- B. Randomized path selection
- **C. Low-latency lossless transport**
- D. Best-effort forwarding

Answer: C

Explanation:

RoCEv2 depends on low-latency and near-lossless Ethernet transport to maintain efficient RDMA communication. Packet drops trigger retransmissions and significantly degrade AI training performance. Best-effort forwarding cannot guarantee delivery quality, while fragmentation and randomized path selection do not address the primary RDMA requirement.

NEW QUESTION # 29

An engineer is deploying a Cisco AI POD environment to support large-scale AI workloads. The solution must provide a software-defined storage platform with a Disaggregated Shared- Everything architecture, allow compute nodes to run on Cisco UCS C225 M8 servers managed through Cisco Intersight, and deliver exabyte-scale, all-flash performance with integrated high-speed RDMA and GPU Direct Storage capabilities. Which solution meets the requirements?

- A. Pure Storage FlashBlade
- B. NetApp All-Flash FAS (AFF)
- C. Local NVMe SSDs within each GPU server
- **D. VAST Data Universal Storage**

Answer: D

Explanation:

VAST Data Universal Storage provides a software-defined, disaggregated shared-everything storage architecture designed for AI-scale workloads. It supports Cisco UCS-based deployments managed through Intersight and delivers high-performance all-flash storage with RDMA and GPU Direct Storage capabilities for large-scale AI training, fine-tuning, and inference environments.

NEW QUESTION # 30

An engineer must optimize the performance of an AI inference workload running on a Cisco UCS C-Series rack server. The workload experiences intermittent latency spikes, and Intersight system logs show frequent thermal event entries. Which troubleshooting action must be taken first to address the performance issues on the Cisco UCS server?

- A. Check the power supply status and power consumption of the UCS server using UCS Manager to ensure that the server has sufficient power.
- B. Examine the storage configuration, including the RAID configuration and disk health, to ensure that the storage subsystem is not causing latency issues.
- **C. Inspect the physical environment of the server, including ambient temperature and airflow, and replace any failed fans.**
- D. Review the resource utilization of the AI workload (CPU, memory, and GPU) to identify potential bottlenecks and optimize resource allocation.

Answer: C

Explanation:

Frequent thermal events indicate that the server may be throttling CPU or GPU performance to protect hardware from overheating. The first action is to verify the physical cooling conditions, including ambient temperature, airflow, and fan health, because resolving thermal constraints directly addresses the likely cause of intermittent latency spikes.

NEW QUESTION # 31

A customer deploys a UCS 885a server in a data center with two power grids. Three of the 3000W power supplies in the server connect to each grid. Due to an external event, one of the grids will be shut down for maintenance. How does the server respond to this event?

- A. The server immediately shuts down and stops all operations.
- B. The server initiates a graceful shut down of the operating system.
- **C. The server operates with reduced performance and caps power to GPUs at 60%.**
- D. The server continues to operate at full performance using redundant power supplies, but the PSU status LED glows solid amber.

Answer: C

Explanation:

With three 3000W power supplies lost from one power grid, the UCS C885A continues operating on the remaining grid but no longer has the full power budget available for maximum GPU operation. The server reduces performance by enforcing power limits, including capping GPU power, so workloads can continue running within the available power capacity.

NEW QUESTION # 32

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