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2026 Exam 300-640 Guide - Implementing Cisco Data Center AI Infrastructure Realistic New Study Questions Free PDF Quiz

The Cisco 300-640 certification exam is one of the hottest and career-oriented Implementing Cisco Data Center AI Infrastructure (300-640) exams. With the Implementing Cisco Data Center AI Infrastructure (300-640) exam you can validate your skills and upgrade your knowledge level. By doing this you can learn new in-demand skills and gain multiple career opportunities. To do this you just need to enroll in the Cisco 300-640 Certification Exam and put all your efforts to pass this important Cisco 300-640 Exam

Questions. However, you should keep in mind that to get success in the Implementing Cisco Data Center AI Infrastructure (300-640) exam is not an easy task.

Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q52-Q57):

NEW QUESTION # 52

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

Answer: A

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 # 53

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

Answer: D

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 # 54

A data center is deploying an AI infrastructure for LLM training and model inference. This infrastructure requires high GPU density, low-latency interconnects, and the ability to scale compute resources. When considering the Cisco UCS C885A M8 Rack Server for the deployment, which design aspect is the most critical for achieving optimal performance and scalability in this environment?

- A. using the maximum number of CPU cores to support the virtualization overhead
- B. configuring the server with the minimum amount of RAM to reduce initial costs
- C. implementing a redundant power supply configuration to ensure high availability
- D. selecting the appropriate Nexus Fabric and its configuration to minimize latency

Answer: D

Explanation:

For UCS C885A M8 servers running LLM training and inference workloads, the surrounding Nexus fabric design is critical because GPU-dense systems depend on low-latency, high-bandwidth, lossless network connectivity for scale-out performance. Selecting and configuring the correct Nexus fabric minimizes communication delays between compute nodes and enables the AI infrastructure to scale efficiently.

NEW QUESTION # 55

A customer is deploying a new AI fabric with all new NVIDIA GPUs and must verify the performance between the nodes in the network. Which tool must be used to validate the customer benchmarks?

- A. IXIA
- **B. NCCL**
- C. Spirent
- D. iPerf

Answer: B

Explanation:

NCCL is the standard tool used to validate GPU-to-GPU communication performance in NVIDIA- based AI fabrics. It measures collective communication behavior between GPU nodes, making it appropriate for benchmarking the AI training network performance.

NEW QUESTION # 56

What is a purpose of Cisco AI PODs?

- A. to deliver modular AI hardware components that can be integrated with third-party software platforms
- B. to enable AI lifecycle management through cloud-native software with hardware support limited to compute servers
- **C. to provide a turnkey, full-stack infrastructure for AI training, fine-tuning, and inferencing**
- D. to offer a flexible AI infrastructure focused on inferencing workloads with optional training capabilities

Answer: C

Explanation:

Cisco AI PODs are designed as integrated, validated full-stack infrastructure solutions that combine compute, networking, storage, and management capabilities to support AI training, fine- tuning, and inferencing workloads with faster deployment and operational consistency.

NEW QUESTION # 57

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