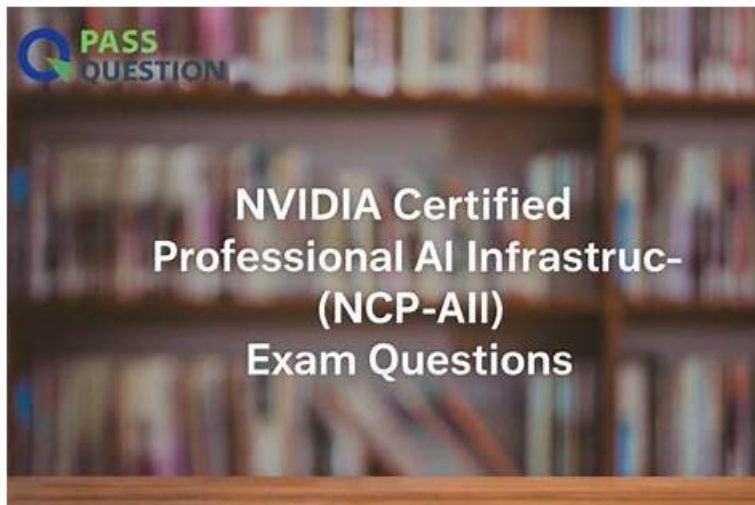


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NVIDIA AI Infrastructure Sample Questions (Q107-Q112):

NEW QUESTION # 107

You are evaluating the integration of NVIDIA BlueField DPUs into your data center's storage architecture to optimize AI workloads. The storage solution chosen has incorporated BlueField DPUs to enhance performance and efficiency. Which of the following benefits directly results from this integration?

- A. Elimination of latency issues in data processing tasks.
- **B. Reduced CPU load by offloading data processing tasks to DPUs.**
- C. Enhanced I/O performance with NVMe storage access speeds.
- D. Unlimited scalability by adding more DPUs without architectural changes.

Answer: B

Explanation:

NVIDIA BlueField Data Processing Units (DPUs) are designed to offload, accelerate, and isolate infrastructure tasks that traditionally consume significant host CPU cycles. In modern AI storage architectures, tasks such as NVMe-over-Fabrics (NVMe-oF) target emulation, hardware-accelerated encryption, and data compression are extremely CPU-intensive. By integrating BlueField DPUs into the storage fabric, these "Infrastructure" tasks are handled by the DPU's dedicated ARM cores and hardware acceleration engines. This reduces the load on the host CPU, freeing up those cores to focus entirely on application logic and feeding the GPUs. While DPUs do enhance I/O performance and reduce latency (Options B and D), those are indirect benefits of the fundamental architectural shift of offloading. The direct, primary benefit cited in NVIDIA's DOCA and BlueField documentation is the reclamation of host CPU resources, effectively turning a standard server into a more efficient "AI-ready" node.

NEW QUESTION # 108

What is the primary purpose of performing a NeMo burn-in on a new AI infrastructure?

- A. To tune NeMo model hyperparameters for maximum accuracy on user datasets during cluster deployment.
- **B. To stress test the hardware and software stack with representative NeMo workloads, ensuring reliability.**
- C. To benchmark production training speed and ensure all GPUs are running at identical clock speeds.

Answer: B

Explanation:

The primary purpose of a NeMo burn-in is to stress test the hardware and software stack using representative NeMo workloads before releasing the AI infrastructure to production. NeMo workloads can exercise GPU compute, GPU memory, CUDA libraries, NCCL communication, storage access, checkpointing, container runtime, scheduler integration, and distributed training behavior. This makes NeMo burn-in more realistic than simply checking that GPUs are visible or that a small synthetic benchmark runs successfully. The goal is not to tune hyperparameters for model accuracy, because burn-in validates infrastructure reliability rather than model quality. It is also not mainly about ensuring all GPUs run at identical clock speeds; clock behavior can vary based on power, thermals, workload, and GPU boost behavior. What matters is that the workload runs reliably, without stalls, NCCL failures, GPU Xid errors, storage bottlenecks, memory faults, or unstable performance. In NVIDIA AI infrastructure validation, representative workload burn-in bridges the gap between low-level diagnostics and real production training, helping detect issues that synthetic tests alone may miss.

NEW QUESTION # 109

You are designing an AI server infrastructure using NVIDIA HGX A100 modules. The server's power supply units (PSUs) are configured in a redundant (N+1) setup. The individual PSUs are rated for 3000W each, and the server contains three PSUs. If the expected peak power consumption of the HGX A100 modules and other components is 5500W, what is the safety margin (in Watts) in the power budget?

- A. 5000W
- B. 0W
- C. 9000W
- D. 3500W
- **E. 500W**

Answer: E

Explanation:

With N+1 redundancy and three 3000W PSUs, the total available power is $3 \times 3000W = 9000W$ (N+1 means the system can tolerate one PSU failure). The safety margin is $9000W - 5500W = 3500W$.

NEW QUESTION # 110

You are configuring an NVIDIA BlueField-3 DPLJ to offload network processing. The DPLJ is connected to a server via PCIe Gen5. Which cable type is essential for connecting the DPLJ to a 200GbE switch, ensuring optimal performance and signal integrity, and which describes its use?

- A. Single-mode fiber optic cable; Used for long-distance connections where electrical interference is a concern.
- B. Passive Copper Cable; Cost-effective for very short reach connections within the same rack.
- C. Active Copper Cable (ACC); Suitable for mid-range connections with improved signal quality compared to passive

copper.

- D. Direct Attach Copper (DAC) cable; Ideal for short-range, high-bandwidth connections between devices in close proximity.
- E. Active Optical Cable (AOC); Best for long-distance connections exceeding 10 meters in data centers.

Answer: D

Explanation:

Direct Attach Copper (DAC) cables are the best choice for short-range, high-bandwidth connections like those between a DP1J and a switch within the same rack. They offer a balance of cost and performance, while maintaining signal integrity. AOCs are for longer reach, while passive copper cables are for very short distances.

NEW QUESTION # 111

During a 72-hour HPL burn-in test on a DGX H100 cluster, one node shows a 15% performance drop after 48 hours. What are the two most likely causes and diagnostic steps?

Pick the 2 correct responses below.

- A. Memory corruption; reboot the node and reduce problem size N.
- B. MPI configuration error; rerun with --cpu-affinity adjustments.
- C. Thermal throttling due to cooling issues; check nvidia-smi dmon.
- D. Network packet loss; analyze ibdiagnet reports.

Answer: C,D

Explanation:

The two most likely causes are network packet loss and thermal throttling. A performance drop after 48 hours of HPL burn-in is less likely to be a simple launch-time MPI configuration issue, because MPI affinity errors usually appear from the beginning of the run as consistently poor performance. A delayed degradation suggests the system changed state under sustained load. Thermal throttling is a common cause: after many hours, rack cooling imbalance, blocked airflow, high inlet temperature, or fan behavior can cause GPU clocks to drop. nvidia-smi dmon helps monitor GPU temperature, power, utilization, and clocks over time. Network packet loss is also likely in multi-node HPL because HPL depends on heavy communication across the InfiniBand fabric. Link errors, symbol errors, retransmissions, degraded cables, or congestion can reduce sustained performance. ibdiagnet is the correct fabric-level diagnostic tool to collect and analyze InfiniBand health, topology, counters, and link issues. Rebooting and reducing matrix size would hide the symptom rather than diagnose it. Correct burn-in practice is to preserve evidence, inspect thermal telemetry, review network diagnostics, and compare the affected node against healthy peers.

NEW QUESTION # 112

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