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NVIDIA AI Infrastructure Sample Questions (Q27-Q32):

NEW QUESTION # 27

You are troubleshooting a performance issue with a GPU-accelerated application running inside a Docker container. The 'nvidia-smi' output inside the container shows the GPU is being utilized, but the performance is significantly lower than expected. Which of the following could be the cause of this performance bottleneck?

- A. The GPU is overheating, causing thermal throttling.
- B. The application is performing frequent small memory transfers between the CPU and GPU.
- C. The host machine's CPU is being heavily utilized, causing a bottleneck in data transfer to the GPU.
- D. The version of the CUDA driver on the host is incompatible with the CUDA toolkit version used in the container.
- E. The Docker container is not configured to use shared memory for data transfer with the GPU.

Answer: A,B,C,D

Explanation:

Several factors could contribute to reduced GPU performance within a Docker container, even if the GPU is being utilized. A heavily loaded CPU (A) can bottleneck data transfer to the GPU. Incompatible CUDA driver versions between host and container (C) cause unexpected errors, and CUDA drivers are important for GPU support. Frequent small memory transfers between CPU and GPU (D) can be inefficient. Overheating (E) can cause the GPU to throttle its performance. While shared memory optimization (B) can help, it's not always the primary cause of the initial performance drop.

NEW QUESTION # 28

Consider the following 'lspci' output snippet after installing an NVIDIA GPU:

```
03:00.0 VGA compatible controller: NVIDIA Corporation Device 2236 (rev a1) Subsystem: Dell Device 1234 Kernel driver in use: nvidia Kernel modules: nvidiafb, nouveau, nvidia drm, nvidia
```

What does this output indicate, and what is the POTENTIAL issue?

- A. The GPU is not properly installed, as indicated by 'Device 2236'. Solution: Re-seat the GPU.
- B. The GPU is installed, but the open-source 'nouveau' driver is loaded instead of the proprietary NVIDIA driver, which could lead to suboptimal performance.
- C. The GPU is correctly installed, and the proprietary NVIDIA driver is loaded.
- D. The output indicates a hardware failure and requires a replacement of the GPU.
- E. Solution: Blacklist 'nouveau' and ensure the NVIDIA driver is correctly configured.
- F. The GPU is installed, but the 'nvidiafb' driver is causing conflicts. Solution: Remove the 'nvidiafb' module.

Answer: B

Explanation:

The output shows that both the 'nvidia' driver and the 'nouveau' driver are loaded. 'nouveau' is an open-source driver, and while it allows the GPU to function, it does not provide the performance benefits of the proprietary NVIDIA driver. The presence of 'nouveau' can sometimes interfere with the proper loading of the NVIDIA driver. Blacklisting 'nouveau' ensures that only the NVIDIA driver is used.

NEW QUESTION # 29

You are standing up an NVIDIA DGX system for enterprise production. Stakeholder teams require system reliability, performance consistency under load, and proper escalation processes before release. A recent system in another cluster experienced intermittent GPU failures attributed to missed early-stage validation.

Which deployment and validation sequence best addresses production readiness and mitigates the risk of avoidable downtime or performance loss?

- A. Update network topology, assign static IPs and DNS entries, register the system with NVIDIA, then conduct basic OS-level checks and enable user access after login testing is successful.
- B. Complete hardware and cabling, power on the system, update firmware and drivers, run full hardware health checks and

stress diagnostics using NVSM, verify all GPU and system sensor logs, and validate GPU accessibility.

- C. Power on the system, install all AI frameworks, configure the CUDA and library stack, set up user environments, then plan stress tests and diagnostics as part of ongoing routine operations.
- D. Install latest OS images and drivers, confirm OS and container functionality, invite users for a monitored production trial, and collect workload feedback to plan any further diagnostics or updates.

Answer: B

Explanation:

The correct sequence is to complete physical installation and cabling, power on the DGX system, update firmware and drivers, run full health and stress diagnostics, review GPU and system logs, and validate GPU accessibility before production release. Enterprise DGX deployment requires layered validation. Physical cabling, power, and cooling must be correct before software validation is meaningful. Firmware and driver versions must be aligned so that GPUs, NVSwitch, network adapters, BMC, and management tools operate in a supported state. NVSM health checks and stress diagnostics are important because they can detect platform issues such as storage alerts, power supply faults, fan problems, thermal problems, or hardware instability.

GPU accessibility should be verified with NVIDIA tools before users are allowed to run production workloads. Option A is too weak because it exposes users before full diagnostics are complete. Option C focuses on network identity but ignores hardware stress validation. Option D delays stress testing until routine operations, which is exactly how early-stage failures can be missed. A production-ready DGX system should be validated before user workloads depend on it.

NEW QUESTION # 30

You're optimizing a deep learning model for deployment on NVIDIA Tensor Cores. The model uses a mix of FP32 and FP16 precision. During profiling with NVIDIA Nsight Systems, you observe that the Tensor Cores are underutilized. Which of the following strategies would MOST effectively improve Tensor Core utilization?

- A. Decrease the learning rate to improve training stability and reduce the need for gradient clipping.
- B. Enable CUDA graph capture to reduce kernel launch overhead.
- C. Ensure that all matrix multiplications are performed using FP16 precision.
- D. Increase the batch size to fully utilize the available GPU memory.
- E. Pad the input tensors to dimensions that are multiples of 8 for optimal Tensor Core alignment.

Answer: E

Explanation:

Padding input tensors (C) to multiples of 8 is crucial for optimal Tensor Core performance, as Tensor Cores operate most efficiently on data with these dimensions. Using FP16 (B) is important, but proper alignment is key for full utilization. Increasing batch size (A) can improve overall throughput but doesn't directly address Tensor Core utilization. CIJDA graph capture (D) reduces kernel launch overhead, not Tensor Core utilization directly. Decreasing learning rate (E) is unrelated to Tensor Core performance.

NEW QUESTION # 31

What is the purpose of using NCCL in verifying East-West fabric in an NVIDIA AI Factory?

Pick the 2 correct responses below.

- A. To measure the latency between GPUs.
- B. To measure bandwidth between GPUs.
- C. To measure the power consumption of GPUs.
- D. To measure the storage network performance.

Answer: A,B

Explanation:

NCCL is used to validate GPU communication behavior across the East-West fabric, so the correct answers are measuring latency between GPUs and measuring bandwidth between GPUs. NVIDIA describes NCCL as a topology-aware library of multi-GPU collective communication primitives, and NVIDIA GPU debug guidance specifically identifies NCCL performance tests, such as `all_reduce_perf`, as useful for establishing network performance between groups of nodes. In an AI Factory, East-West traffic is the server-to-server traffic used during distributed training. When models scale across many GPUs and nodes, operations such as all-reduce, broadcast, all-gather, and reduce-scatter depend on low latency and high bandwidth. NCCL testing helps confirm that GPU-to-GPU paths, GPUDirect RDMA, InfiniBand or Spectrum-X fabric behavior, routing, and collective communication performance are healthy before production workloads start. NCCL is not intended to measure storage performance; that requires

storage benchmarks or GPUDirect Storage validation. It also does not measure GPU power consumption; that is handled by tools such as nvidia-smi, DCGM, or platform telemetry.

NEW QUESTION # 32

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