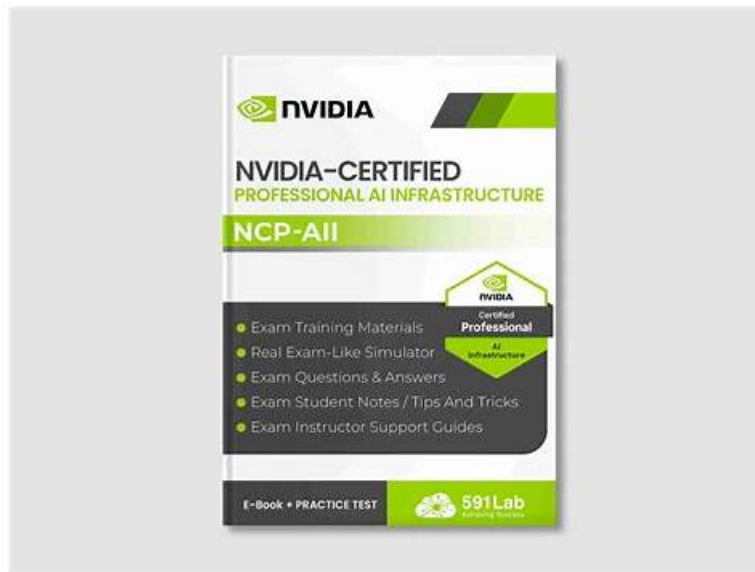


NCP-AII Exam Torrent - NVIDIA AI Infrastructure Prep Torrent & NCP-AII Test Braindumps



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NVIDIA AI Infrastructure Sample Questions (Q228-Q233):

NEW QUESTION # 228

You are designing a network for a distributed training job utilizing multiple GPUs across multiple nodes. Which network characteristic is MOST critical for minimizing training time?

- A. Low cost
- B. Large MTU
- C. High bandwidth

- D. High packet loss rate
- E. Low latency

Answer: B,C,E

Explanation:

Distributed training involves frequent data exchange between GPUs. High bandwidth is necessary to move large datasets quickly. Low latency reduces the round-trip time for communication. Large MTU (Maximum Transmission Unit) can reduce overhead by transmitting larger packets. High packet loss is detrimental to performance. Low cost should not be prioritized over performance in a distributed training environment.

NEW QUESTION # 229

You're deploying BlueField OS to an Arm-based SmartNIC. After flashing the image, the system fails to boot and you observe a kernel panic related to device tree loading. Which of the following is the most likely cause?

- A. The BlueField OS image is corrupted. A fresh download and re-flash should resolve the problem.
- B. The flashed image is not intended for your specific BlueField card revision. Ensure that image corresponds to hardware version.
- C. The secure boot configuration is incorrectly set up. Disabling secure boot in the BIOS or bootloader might resolve the issue.
- D. Insufficient memory allocated to the initrd image. This can lead to failures during initial system setup.
- E. Incorrect bootloader configuration (e.g., incorrect bootargs). The bootloader might not be pointing to the correct device tree blob (dtb) or root filesystem.

Answer: E

Explanation:

A device tree blob (DTB) describes the hardware to the kernel. If the bootloader doesn't point to the correct DTB or its boot arguments are incorrect, the kernel cannot properly initialize, leading to a panic. The other options could contribute to boot problems but a device tree problem commonly manifests as a kernel panic during initialization.

NEW QUESTION # 230

You are tasked with selecting transceivers for a new NVIDIA Quantum-2 InfiniBand switch deployment. The primary requirement is to minimize power consumption while maintaining 400Gbps bandwidth over short distances (up to 50 meters). Which transceiver type would offer the BEST power efficiency in this scenario?

- A. QSFP-DD DR4
- B. QSFP-DD LR8
- C. QSFP-DD SR4
- D. QSFP-DD AOC
- E. QSFP-DD SR8

Answer: C

Explanation:

SR4 transceivers are known for their relatively low power consumption compared to other 400GbE transceiver types. This is because they use a simpler modulation scheme and shorter reach, requiring less power for signal amplification and processing. LR8 and DR4 are designed for longer distances and consume more power. AOCs, while convenient, are not typically the most power-efficient option. SR8 may consume slightly higher power than SR4 but provides better performance in certain scenarios.

NEW QUESTION # 231

A server with four installed NVIDIA GPUs is experiencing intermittent crashes during heavy AI training workloads. You suspect a power issue. You have monitored the power consumption and found that the GPUs are briefly exceeding the rated power capacity of the PSU during peak loads. What are TWO effective mitigation strategies you can implement? (Select TWO)

- A. Increase the server room temperature.
- B. Underclock the GPUs to reduce their power consumption.
- C. Re-seat the GPUs in their respective slots.

- D. Replace the PSU with a higher wattage PSU.
- E. Disable one of the GPUs to reduce the total power draw.

Answer: B,D

Explanation:

Underclocking the GPUs reduces their power consumption directly. Replacing the PSU provides more headroom to handle the peak loads. Disabling a GPU reduces performance. Increasing server room temperature exacerbates the problem. Reseating GPUs addresses connection issues, not power limitations.

NEW QUESTION # 232

A user reports that their GPU-accelerated application is crashing with a CUDA error related to 'out of memory'. You have confirmed that the GPU has sufficient physical memory. What are the likely causes and troubleshooting steps?

- A. The CUDA driver version is incompatible with the CUDA runtime version used by the application. Update the CUDA driver to match the runtime version.
- B. The system's virtual memory is exhausted. Increase the swap space.
- C. The application is leaking GPU memory. Use a memory profiling tool like 'cuda-memcheck' to identify the source of the leak.
- D. The application is requesting a larger block of memory than is available in a single allocation. Try breaking the allocation into smaller chunks or using managed memory.
- E. The process has exceeded the maximum number of GPU contexts allowed. Reduce the number of concurrent CUDA applications running on the GPU.

Answer: C,D

Explanation:

Memory leaks and single-allocation limits are common causes of 'out of memory' errors, even when sufficient physical memory exists. 'cuda-memcheck' is specifically designed to find memory errors in CUDA applications. While driver incompatibility is possible, leaks and allocation size limits are more frequent occurrences.

NEW QUESTION # 233

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