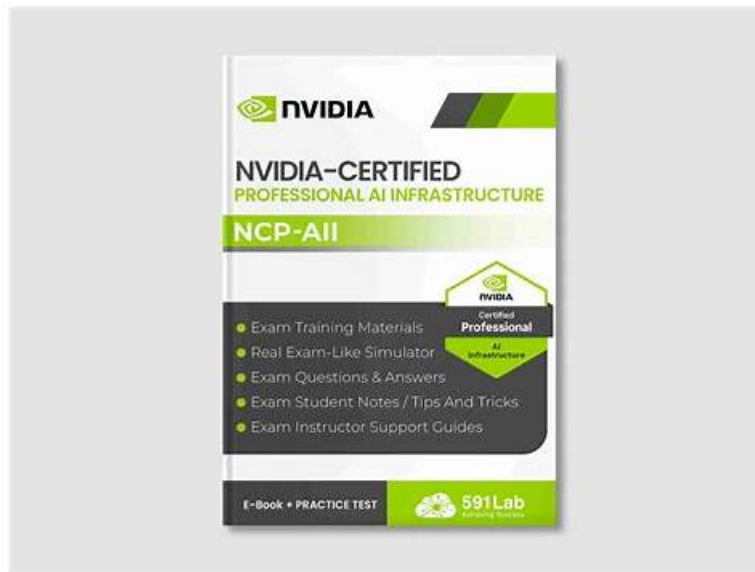


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NVIDIA AI Infrastructure Sample Questions (Q178-Q183):

NEW QUESTION # 178

You are managing an NVIDIA DGX A100 server and notice that GPU utilization fluctuates significantly during a supposedly constant training workload. You suspect power capping might be the cause. How can you definitively determine if power capping is active and affecting GPU performance?

- A. Use 'nvidia-smi' to query the 'ClocksThrottleReasonS'. If 'PowerCap' is listed as active, power capping is in effect.
- B. Check the server's BIOS settings for any power management configurations that might be limiting GPU power consumption.
- C. Monitor the voltage supplied to the GPUs. If the voltage is consistently lower than the maximum rated voltage, power capping is active.

- D. Examine the 'pstate' value reported by 'nvidia-smi'. A lower 'pstate' indicates power capping.
- E. Monitor GPU temperature using 'nvidia-smi'. If the temperature is consistently below the thermal threshold, power capping is likely active.

Answer: A

Explanation:

The most direct way to determine if power capping is active is to use 'nvidia-smi' and query the 'ClocksThrottleReasonS'. If 'PowerCap' is listed as active, it definitively indicates that power capping is in effect and limiting the GPU's performance. The 'pstate' value can be indicative, but not always conclusive. Temperature alone doesn't confirm power capping.

NEW QUESTION # 179

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 host machine's CPU is being heavily utilized, causing a bottleneck in data transfer to the GPU.
- B. The GPU is overheating, causing thermal throttling.
- C. The Docker container is not configured to use shared memory for data transfer with 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 application is performing frequent small memory transfers between the CPU and GPU.

Answer: A,B,D,E

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 # 180

You are installing four NVIDIA A100 GPUs into a server designed for AI training. The server motherboard has multiple PCIe Gen4 x16 slots. However, the server's power supply unit (PSU) only has three 8-pin PCIe power connectors available. What is the BEST course of action to ensure all GPUs receive adequate power?

- A. Connect the GPUs using the motherboard's internal SATA power connectors.
- B. Install only three GPUs and leave the fourth unpowered.
- C. Replace the existing PSU with a higher wattage PSU that has at least four 8-pin PCIe power connectors.
- D. Use a PCIe power splitter cable on one of the 8-pin connectors to power two GPUs.
- E. Underclock the GPUs significantly to reduce their power consumption below the available PSU capacity.

Answer: C

Explanation:

Using a splitter can overload the original connector and cause instability or damage. Leaving a GPU unpowered defeats the purpose. SATA connectors are not designed for the high power requirements of GPUs. Underclocking might work, but is not a reliable long-term solution. Replacing the PSU is the safest and most reliable solution.

NEW QUESTION # 181

In a data center utilizing NVIDIA GPUs and NVLink, what is the primary advantage of using a direct-attached NVLink network topology compared to routing traffic over the network?

- A. Improved power efficiency
- B. Increased network security
- C. Reduced cost of network infrastructure
- D. Higher bandwidth and lower latency between GPUs
- E. Simplified network configuration

Answer: D

Explanation:

Direct-attached NVLink provides significantly higher bandwidth and lower latency compared to routing traffic over a traditional network. This is crucial for applications that require intensive GPU-to-GPU communication, such as large-scale AI training. While direct-attached NVLink can simplify configuration in some cases, its primary advantage is the performance improvement.

NEW QUESTION # 182

You are deploying a multi-node NVIDIA GPU cluster for distributed deep learning. Each node has a different ambient operating temperature due to varying airflow patterns within the data center. To ensure optimal performance and longevity of the GPUs across all nodes, which approach is MOST effective for managing GPU power limits?

- A. Set a uniform power limit for all GPUs across the entire cluster based on the GPU's Thermal Design Power (TDP) specification.
- B. Disable power capping altogether to allow GPUs to operate at their maximum potential performance.
- C. Rely on the default power management settings provided by the GPU driver.
- D. Manually adjust the fan speeds of each GPU to ensure they are all running at maximum RPM.
- E. Implement dynamic power management using NVIDIA's Data Center GPU Manager (DCGM) to adjust power limits on a per-GPU basis, taking into account real-time temperature readings and workload characteristics.

Answer: E

Explanation:

Option C, using DCGM for dynamic power management, is the most effective approach. It allows for per-GPU power limit adjustments based on real-time conditions, optimizing performance while ensuring thermal safety and longevity across nodes with different operating temperatures. A uniform power limit (A) might be too restrictive for some nodes or insufficient for others. Disabling power capping (B) risks overheating and damage. Default settings (D) may not be optimal. Manually adjusting fan speeds (E) can help, but doesn't address power limits directly.

NEW QUESTION # 183

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