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## NVIDIA NCP-AII NVIDIA AI Infrastructure

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## NVIDIA AI Infrastructure Sample Questions (Q103-Q108):

### NEW QUESTION # 103

You are tasked with installing a BlueField-2 DPU on a server. After physical installation, the DPU is not recognized by the host OS (Linux). You've verified the power and connection. What is the most likely first step you should take to troubleshoot the issue?

- A. Immediately reflash the BlueField-2 DPU firmware with the latest version.
- B. Check the UEFI settings to ensure that the PCIe slot where the DPU is installed is enabled and configured correctly.
- C. Install the latest NVIDIA drivers on the host OS, specifically the BlueField-related drivers.
- D. Replace the BlueField-2 DPU, assuming it's faulty hardware.
- E. **Check the system BIOS settings to ensure that IOMMU (Input/Output Memory Management Unit) is enabled and properly configured.**

**Answer: E**

Explanation:

IOMMU is crucial for the host OS to properly recognize and manage the DPUs resources. If IOMMU is disabled or misconfigured, the DPU might not be detected. The other options are less likely to be the immediate cause of the issue. While drivers are important, IOMMU is a fundamental requirement. I2EFI config is also important but less likely.

### NEW QUESTION # 104

You are deploying a security application that leverages the BlueField DPIJ to perform deep packet inspection (DPI) on network traffic.

Your application requires access to the raw packet data, including the Ethernet headers. Which of the following programming models or APIs is most suitable for accessing raw packet data on the BlueField DPU with minimal overhead?

- A. Using standard Linux socket APIs (e.g., 'socket()', 'recvfrom()') in user space.
- B. Using the 'tcpdump' command and parsing its output.
- C. Using Netfilter hooks in the Linux kernel to intercept packets.
- D. **using DPDK (Data Plane Development Kit) with the BlueField DPU's PMD (Poll Mode Driver).**
- E. Using libpcap to capture packets from the network interface.

**Answer: D**

Explanation:

DPDK provides a framework for high-performance packet processing in user space, bypassing the kernel's networking stack. The BlueField DPU's PMD (Poll Mode Driver) allows DPDK applications to directly access the network interface with minimal overhead. This is ideal for DPI applications that need to process a large volume of packets at high speed. Standard socket APIs and Netfilter hooks involve kernel intervention, which can introduce significant overhead. Libpcap is a packet capture library, not designed for high-performance packet processing. 'tcpdump' is a command-line tool, not a programming API.

### NEW QUESTION # 105

After successfully installing the NVIDIA Container Toolkit and configuring Docker, you're attempting to build a container image that leverages the GPU. You're using a Dockerfile but encounter the following error during the 'docker build' process: 'error during connect: this error may indicate that the docker daemon is not running'. However, the Docker daemon IS running. What is the most likely reason the build process is failing to connect, specifically in the context of GPU-enabled containers?

- A. The user executing the 'docker build' command does not belong to the 'docker' group.
- B. **The '-gpus all' flag (or similar) needs to be passed to the 'docker build' command to enable GPU access during the build process, as it is needed for building images that require cuda.**
- C. The container requires more memory than the host is providing and the docker build command exited due to OOM.
- D. The Docker daemon does not have sufficient permissions to access the NVIDIA GPUs.
- E. The Docker daemon is configured to use a different networking driver than the one expected by the NVIDIA Container Toolkit.

**Answer: B**

Explanation:

The error 'error during connect: this error may indicate that the docker daemon is not running' during a 'docker build', when the

daemon actually is running, can indicate a failure to connect to the daemon for a specific reason related to GPU access. 'docker build' requires '- gpus all' to be passed in order for CUDA to correctly build the image. Permissions(A) are unlikely to cause this specific connection error. User group issues(B) are usually related to running containers, not building them. A networking issue (D) is possible but less likely in the context of a local build. The same can be said for container exceeding the hosts' available memory.

### NEW QUESTION # 106

You are tasked with deploying a cluster of NVIDIA AIOO GPUs in a high-density server environment. The server chassis has a limited power budget and cooling capacity. Which of the following strategies is MOST effective in validating that the power and cooling infrastructure can adequately support the GPU workload during peak performance, minimizing the risk of thermal throttling and system instability?

- A. Observe the GPU clock speeds during a workload. If the clock speeds are at the maximum rated speed, the power and cooling are sufficient.
- B. Employ a power monitoring tool (e.g., IPMI, Redfish) to measure the actual power consumption of the server during a stress test that mimics the intended AI workload. Cross-reference this with the power supply unit's (PSU) rating and the cooling system's capacity.
- C. Monitor GPU temperature using 'nvidia-smi' during a sustained compute-intensive workload and compare it to the GPU's thermal threshold. If the temperature remains below the threshold, the cooling is adequate.
- D. Simulate the AI workload with a synthetic benchmark (e.g., Linpack) and extrapolate power consumption based on the benchmark's performance metrics.
- E. Rely solely on the GPU manufacturer's stated Thermal Design Power (TDP) specifications and allocate power based on these values.

#### Answer: B

Explanation:

Option C provides the most comprehensive approach. TDP is a theoretical maximum and doesn't reflect real-world power consumption. Monitoring temperature is important but doesn't account for total power draw. Synthetic benchmarks may not accurately represent the AI workload. Monitoring actual power consumption and comparing it to the PSU rating and cooling capacity offers the most accurate validation.

### NEW QUESTION # 107

What is the role of GPUDirect RDMA in an NVLink Switch-based system, and how does it improve performance?

- A. It enables direct communication between GPUs and storage devices, bypassing the network interface.
- B. It encrypts data transmitted between GPUs, enhancing security.
- C. It provides a mechanism for GPUs to offload compute-intensive tasks to the CPU, improving overall system throughput.
- D. It allows GPUs to directly access each other's memory without involving the CPIJ, reducing latency and CPU overhead.
- E. It facilitates the virtualization of GPUs, allowing multiple virtual machines to share a single physical GPIJ.

#### Answer: D

Explanation:

GPUDirect RDMA enables direct memory access between GPUs, bypassing the CPU and reducing latency. This significantly improves performance for applications that require frequent data transfers between GPUs. Other options describe functionalities that are not associated with RDMA in this context.

### NEW QUESTION # 108

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