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NVIDIA NCP-AII NVIDIA AI Infrastructure

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NVIDIA AI Infrastructure Sample Questions (Q74-Q79):

NEW QUESTION # 74

You are deploying a new NVLink Switch based cluster. The GPUs are installed in different servers, but need to be configured to utilize NVLink interconnect. Which of the following should be performed during the installation phase to confirm correct configuration?

- A. All the GPU's are in the same IP subnet
- B. Verify that GPUDirect RDMA is enabled and functioning correctly.
- C. Run NCCL tests to verify the GPU-to-GPU bandwidth and latency between servers.
- D. Check that the 'nvidia-smi' command shows the correct NVLink topology.
- E. Run standard TCP/IP network bandwidth tests to check inter-server communication.

Answer: B,C,D

Explanation:

NCCL tests are specifically designed to test GPU-to-GPU communication. Ensuring GPUDirect RDMA is functioning is essential for low-latency communication. 'nvidia-smi' should display the NVLink topology. TCP/IP tests do not test the NVLink connection. It does not matter if GPUs on different servers are in the same IP subnet as NVLink communication occur directly between the GPUs using RDMA mechanism. Subnetting affects traditional networking layer communication, but not low-level device communication.

NEW QUESTION # 75

After installing the NGC CLI, you attempt to run 'ngc config set' and encounter the following error: 'Error: API key is invalid or missing'.

What are the most likely causes of this issue and how can you resolve them?

- A. The NGC API key is incorrect or has expired. Verify the API key in your NVIDIA account and update the configuration using 'ngc config set'.
- B. The NGC CLI is not properly installed. Reinstall the package using 'pip install -upgrade nvidia-cli'
- C. The host does not have network access to NGC.
- D. The NGC service is down. Check the NVIDIA NGC status page for any known outages.
- E. The NGC CLI configuration file is corrupted. Delete the file (A.ngc/config.json) and reconfigure the CLI.

Answer: A,C,E

Explanation:

The most likely cause is an invalid API key (B) or a corrupted configuration file (C), or the host lacks network access (E). Reinstalling the package (A) might not resolve the issue if the problem lies with the API key or config file. While NGC service outages (D) are possible, they are less common.

NEW QUESTION # 76

You're configuring a BlueField-3 DPU-based server for high-performance storage. You want to utilize NVMe-oF (NVMe over Fabrics) to access remote NVMe SSDs. What is the primary benefit of using a BlueField DPU in this NVMe-oF setup compared to a traditional server with a standard NIC?

- A. BlueField DPU automatically configures the NVMe-oF target without any manual intervention.
- B. BlueField DPU allows hot-swapping of NVMe SSDs without interrupting the NVMe-oF connection.
- C. BlueField DPU provides built-in hardware encryption for all NVMe-oF traffic.
- D. BlueField DPU eliminates the need for a separate NVMe-oF target server.
- E. BlueField DPU offloads the NVMe-oF protocol processing, reducing CPU overhead on the host server.

Answer: E

Explanation:

The key advantage of using a BlueField DPU in an NVMe-oF setup is its ability to offload the NVMe-oF protocol processing. This significantly reduces the CPU overhead on the host server, allowing it to dedicate more resources to other tasks. While some DPUs might offer features like hardware encryption, the primary benefit is protocol offload.

NEW QUESTION # 77

After replacing a faulty NVIDIA GPU, the system boots, and 'nvidia-smi' detects the new card. However, when you run a CUDA program, it fails with the error "no CUDA-capable device is detected". You've confirmed the correct drivers are installed and the GPU is properly seated. What's the most probable cause of this issue?

- A. The GPU is not properly initialized by the system due to a missing or incorrect ACPI configuration.
- B. The user running the CUDA program does not have the necessary permissions to access the GPU.
- C. The CUDA toolkit is not properly configured to use the new GPU.
- D. The new GPU is incompatible with the existing system BIOS.
- E. The 'LD LIBRARY PATH*' environment variable is not set correctly.

Answer: A

Explanation:

The error "no CUDA-capable device is detected", even when 'nvidia-smi' sees the GPU, points to a lower-level system issue that prevents CUDA from accessing the card. In such scenarios, ACPI (Advanced Configuration and Power Interface) misconfiguration is frequently the culprit. ACPI handles device initialization and power management. If ACPI doesn't properly configure the new GPU, CUDA programs won't be able to access it. Checking and correcting ACPI configuration would be the first line of action, which includes ensuring proper settings in the system BIOS/I2C related to PCI devices, especially those related to GPU/accelerators. LD LIBRARY PATH would affect runtime linking of CUDA libraries, but not the base device detection. User permissions are less likely to be the cause since 'nvidia-smi' works.

NEW QUESTION # 78

You encounter an error during MIG instance creation using 'nvidia-smi' stating 'Insufficient GPU resources'. Which of the following could be the cause? (Select all that apply)

- A. The requested MIG configuration exceeds the GPU's available resources (e.g., compute or memory).
- B. The NVIDIA driver version is outdated and does not support the requested MIG configuration.
- C. The GPU is in a bad state and needs to be reset.
- D. The GPU is already fully utilized by other MIG instances or processes.
- E. There is no error; MIG always creates instances regardless of resources.

Answer: A,B,D

Explanation:

The 'Insufficient GPU resources' error indicates that the requested MIG instance creation cannot be fulfilled due to limitations in available resources (A) such as compute or memory. Outdated drivers (B) may not support the requested MIG configurations and hence can lead to resource management problems. When other instances or processes already consume all available resources (C), the operation can't continue. A GPU in a bad state might cause issues, but the specific error message points to resource exhaustion more directly. MIG does not bypass resource checks (E).

NEW QUESTION # 79

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