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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• System and Server Bring-up: Covers end-to-end physical setup of GPU-based AI infrastructure, including BMC • OOB • TPM configuration, firmware upgrades, hardware installation, and power and cooling validation to ensure servers are workload-ready.
Topic 2	• Control Plane Installation and Configuration: Covers deploying the software stack including Base Command Manager, OS, Slurm • Enroot • Pyxis, NVIDIA GPU and DOCA drivers, container toolkit, and NGC CLI.
Topic 3	• Cluster Test and Verification: Covers full cluster validation through HPL and NCCL benchmarks, NVLink and fabric bandwidth tests, cable and firmware checks, and burn-in testing using HPL, NCCL, and NeMo.
Topic 4	• Troubleshoot and Optimize: Covers identifying and replacing faulty hardware components such as GPUs, network cards, and power supplies, along with performance optimization for AMD • Intel servers and storage.
Topic 5	• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.

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NVIDIA AI Infrastructure Sample Questions (Q12-Q17):

NEW QUESTION # 12
A developer reports that their CUDA application running on a MIG instance is experiencing significantly reduced memory bandwidth compared to running on a full GPU. What are the potential causes for this performance bottleneck? (Select all that apply)

- A. The application is exceeding the memory capacity of the MIG instance, leading to excessive swapping.
- B. The application is not optimized to take advantage of the MIG instance's specific memory bandwidth limitations.
- C. MIG instances inherently provide higher memory bandwidth due to their partitioned nature, so this report must be incorrect.
- D. The CUDA driver version is not compatible with the MIG configuration, resulting in reduced performance.
- E. The MIG instance has a smaller memory allocation compared to the full GPIJ, thus limiting the application's memory footprint.

Answer: A,B,D,E

Explanation:
MIG instances have smaller memory allocations (A) compared to the full GPU, which naturally limits memory footprint. Applications may not be optimized for MIG's bandwidth limitations (B) and might require tuning. Exceeding memory capacity will trigger swapping (C), significantly reducing performance. Incompatible CUDA drivers (D) can lead to performance degradation. MIG instances don't inherently offer higher bandwidth (E); they divide the overall GPU resources.

NEW QUESTION # 13
You have a deep learning application that requires a specific version of the CUDA toolkit inside the container. How should you best ensure that the correct CUDA version is available within the container, considering the NVIDIA Container Toolkit is installed on the host?

- A. Use a base image (e.g., from NVIDIA NGC) that already includes the desired CUDA toolkit version. This approach provides a consistent and reproducible environment.
- B. Install the required CUDA toolkit version directly on the host operating system. The NVIDIA Container Toolkit will automatically map it into the container.
- C. Specify the desired CUDA version when running the container using the '-env flag. The NVIDIA Container Toolkit will dynamically install the CUDA version during container startup.
- D. Use the nvidia-container-cli to modify the existing image to install the proper cuda version.
- E. Manually copy the necessary CUDA libraries from the host into the container using 'docker cp' before running the application.

Answer: A

Explanation:
The recommended approach is to use a base image that already contains the desired CUDA version. NVIDIA provides pre-built images on NGC (NVIDIA GPU Cloud) that are specifically designed for deep learning and include the appropriate CUDA versions and other dependencies. Installing CUDA on the host and expecting it to be magically mapped (A) is not reliable. The NVIDIA Container Toolkit doesn't install CUDA on the fly (B). Manually copying libraries (D) is error-prone and doesn't handle dependencies well. While technically possible, using nvidia- container-cli to modify the image is more complex than using a base image.

NEW QUESTION # 14

Consider the following Dockerfile snippet:
This Dockerfile is used to build a deep learning application. After building and running a container from this image, you observe that the application is not detecting the GPU. You have verified that the NVIDIA Container Toolkit is installed and configured correctly on the host. What is the most likely reason for this issue?

- A. The 'docker run' command is missing the '-gpus all' flag.
- B. The base image 'nvidia/cuda:ll .6.2-base-ubuntu20.04' does not include the necessary NVIDIA Container Toolkit components.
- C. The CUDA version on the host is different than the one specified in the Dockerfile.
- D. The application code in 'app.py' is not explicitly requesting GPU resources.
- E. The 'requirements.txt' file is missing the 'nvidia-pyindex' package.

Answer: A

Explanation:
The 'docker run' command must include the =gpus all' (or equivalent) flag to explicitly request GPU resources for the container (C). The base image 'nvidia/cuda:ll .6.2-base-ubuntu20.04' provides the CUDA runtime, but the NVIDIA Container Toolkit on the host handles the GPU device mapping. The application code (B) doesn't need to explicitly request GPUs; the CUDA runtime will handle that. 'nvidia-pyindex' (D) is related to package management, not GPU detection. The Dockerfile includes a specific CUDA version that mitigates version differences (E). The base image does not include the Container Toolkit, which is installed on the HOST.

NEW QUESTION # 15
You are troubleshooting a performance issue with NVMe-oF traffic being accelerated by a BlueField-2 DPU. You suspect a problem with the RDMA configuration. Which of the following 'perfquery" commands would provide the MOST relevant information to diagnose potential RDMA issues such as packet loss or congestion?

- A. 'perfquery (QOS statistics)
- B. 'perfquery -s;' (switch statistics)
- C. 'perfquery -P (port counters including packet loss and congestion)
- D. 'perfquery -x' (general link statistics)
- E. 'perfquery -G' (global counters)

Answer: C

Explanation:
'perfquery -P' provides port counters, including critical information about packet loss, congestion, and other RDMA-related metrics atthe port level. This is the MOST relevant command for diagnosing performance problems related to RDMA within an NVMe-oF setup. Other options provide less specific or relevant information.

NEW QUESTION # 16
You are setting up a BlueField-2 SmartNIC and want to offload network functions. Which of the following are valid methods for enabling hardware offload capabilities?

- A. Installing and configuring the appropriate Mellanox OFED drivers, which automatically enable many hardware offload features.
- B. Running a custom script that programs the hardware offload engines directly.
- C. Modifying the device tree to enable specific hardware features.
- D. Using the 'ethtoor command to enable specific offload features like checksum offload, TCP segmentation offload (TSO), and UDP fragmentation offload (UFO).
- E. Recompiling the Linux Kernel with the correct compilation flags.

Answer: A,D

Explanation:
The 'ethtoor command is used to configure various network interface settings, including enabling/disabling hardware offload features. Installing the correct Mellanox OFED drivers is crucial, as they provide the necessary modules and tools to utilize the hardware offload capabilities. While device tree modification can influence hardware behavior, it's less common and typically handled by driver configuration. A custom script directly programming the hardware is unlikely and driver recompilation may be required, but often isn't necessary with default settings.

NEW QUESTION # 17

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