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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 3	• 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 4	• 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 5	• 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.

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Reliable and Accurate NVIDIA NCP-AII Exam Questions

We can calculate that NCP-AII certification exam is the best way by which you can learn new applications, and tools and mark your name in the list of best employees in your company. You don't have to be dependent on anyone to support you in your professional life, but you have to prepare for ExamBoosts real NVIDIA AI Infrastructure (NCP-AII) exam questions.

NVIDIA AI Infrastructure Sample Questions (Q14-Q19):

NEW QUESTION # 14
Which of the following statements regarding the benefits of using a BlueField DPU for network offload are TRUE? (Select TWO)

- A. Elimination of the need for a dedicated network interface card (NIC).
- B. Automatic compatibility with all existing network protocols without requiring software updates.
- C. Reduced CPU utilization on the host server for network-related tasks.
- D. Increased network throughput due to hardware acceleration.
- E. Simplified network configuration compared to traditional NICs.

Answer: C,D

Explanation:
BlueField DPUs offload network tasks, freeing up CPU resources and improving network performance through hardware acceleration. Simplified configuration is not always guaranteed, as DPUs often require more configuration due to their advanced features. DPUs do not eliminate the need for a NIC, they are a NIC with advanced processing capabilities.

NEW QUESTION # 15
An administrator needs to manually deploy the BlueField image on a target DPU. The administrator downloads the new image file and needs to flash it to the hardware. Which command should the administrator use?

- A. apt install doca-runtime
- B. dd if=/root/bf.image of=/dev/bf bs=4096k
- C. /opt/mellanox/mlnx-fw-updater/mlnx_fw_updater.pl
- D. bfb-install --rshim

Answer: D

Explanation:
The correct command is bfb-install --rshim, normally used with the BFB image path and the appropriate RShim device, such as sudo bfb-install --rshim rshim0 --bfb < image_path.bfb > . BlueField software images are commonly deployed as BFB files, and RShim provides the host-side path used to push the image to the BlueField device. NVIDIA documentation states that the bfb-install utility is included with the RShim package and is used to push the BFB image to the BlueField side while reporting installation progress. The mlnx_fw_updater.pl tool is for firmware updates, not full BlueField OS image deployment. apt install doca- runtime installs DOCA runtime packages but does not flash a BlueField image. Using dd directly to a made- up device path is unsafe and not the supported method for deploying a BlueField boot stream image. During bring-up, using the supported BFB installation workflow helps ensure the DPU boots a valid signed image and enters a known operational state.

NEW QUESTION # 16
Consider the following Python code snippet which attempts to extract Digital Optical Monitoring (DOM) data from a transceiver using a hypothetical library 'transceiver_utils'. The transceiver is connected to port 'eth0'. However, the code consistently throws a 'TransceiverError: Invalid port' exception. What is the MOST likely cause of this error?

- A. The Python code requires root privileges to access transceiver data.
- B. The port 'eth0' does not exist or is not correctly associated with the transceiver.
- C. The fiber cable connected to the transceiver is damaged.
- D. The 'transceiver_utils' library is outdated and does not support DOM data extraction.
- E. The transceiver does not support DOM functionality.

Answer: B

Explanation:
The 'Invalid port' error strongly suggests that the specified port identifier ('eth0') is either incorrect or not properly linked to the transceiver by the operating system or networking stack. While other issues like outdated libraries, lack of DOM support, or cable

damage could cause problems, the specific error message points directly to a port configuration issue.

NEW QUESTION # 17
You are configuring a BlueField DPU to run a custom packet processing application. You want to ensure that the application has exclusive access to certain CPU cores on the DPU. Which mechanism is best suited for isolating CPU cores for your application on the Bluefield DPU?

- A. Using CPIJ affinity settings within the application code itself.
- B. Adjusting the kernel's scheduler parameters to prioritize the application's threads on the desired cores.
- C. Using 'taskset' command to pin the application's processes to specific cores.
- D. Modifying the DPU's bootloader configuration to disable the cores you want to reserve.
- E. Utilizing cgroups (control groups) to create a dedicated cgroup for the application and limit its CPU usage to specific cores.

Answer: E

Explanation:
Cgroups provide a robust and flexible way to isolate and manage resources, including CPU cores, for applications. They allow you to create a dedicated cgroup for your application and limit its CPU usage to specific cores. 'taskset' is a viable option, but cgroups offer more comprehensive resource management capabilities. Modifying the bootloader is not a practical or recommended approach. CPU affinity settings in the application code depend on the application's design and may not be as reliable. Adjusting kernel scheduler parameters can be complex and affect other processes.

NEW QUESTION # 18
An infrastructure engineer in an AI factory has successfully replaced a power supply unit on an NVIDIA DGX H100. After installation, both the IN and OUT LEDs on the new power supply illuminate solid green.
Which NVSM CLI command should the engineer use to quickly verify the overall system status and ensure it is operating as expected?

- A. nvsm show powermode
- B. nvsm show power
- C. nvsm show alerts
- D. nvsm show health

Answer: D

Explanation:
The NVIDIA System Management (NVSM) tool is the definitive CLI utility for monitoring the health of DGX platforms. While replacing a PSU (Power Supply Unit) is a common maintenance task, verifying that the new component is correctly integrated into the system's health model is mandatory. While nvsm show power would provide specific data regarding wattage and voltage for the PSU, the most comprehensive way to ensure the replacement hasn't caused secondary issues or that the system hasn't remained in a "Degraded" state is to run nvsm show health. This command performs a global check across all subsystems: GPUs, NVLink switches, storage, fans, and power. If the PSU replacement was successful and the system is back to full redundancy, nvsm show health will return a "Healthy" status. In an AI factory setting, where DGX H100 nodes pull significant power, ensuring that all 6 PSUs (in an N+N or N+1 configuration) are not only physically green but logically acknowledged by the Baseboard Management Controller (BMC) is critical for preventing unexpected shutdowns during high-load training iterations.

NEW QUESTION # 19
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