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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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 2	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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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NCP-AII Pass Guarantee & Examinations NCP-AII Actual Questions

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NVIDIA AI Infrastructure Sample Questions (Q52-Q57):

NEW QUESTION # 52

You are tasked with configuring a BlueField-2 DPIJ to offload network virtualization functions. Which Mellanox OFED command is MOST crucial for verifying that SR-IOV is correctly enabled and functional on the host and the DPU, prior to configuring vPorts?

- A. 'ethtool -i' to check driver information.
- B. 'mllink' to check link speed and FEC settings.
- C. 'mst status' to verify the status of Mellanox devices and their firmware.
- **D. 'Ispci -vv' to check for the presence of Virtual Functions (VFs) and their assignment.**
- E. 'ifconfig' or 'ip addr show' to verify IP address assignments to network interfaces.

Answer: D

Explanation:

'Ispci -vv' is the most crucial command. It shows the presence of Virtual Functions (VFs) which confirms SR-IOV is enabled. It also shows the device IDs assigned, allowing verification that the host and DPIJ are correctly seeing and assigning VFs to the network interfaces. While other commands are useful for general network diagnostics, they don't directly verify SR-IOV functionality like 'Ispci -vv' does.

NEW QUESTION # 53

You are managing a cluster of GPU servers for deep learning. You observe that one server consistently exhibits high GPU temperature during training, causing thermal throttling and reduced performance. You've already ensured adequate airflow. Which of the following actions would be MOST effective in addressing this issue?

- A. Reduce the ambient temperature of the data center.
- B. Update the NVIDIA drivers to the latest version.
- **C. Increase the fan speed of the GPU cooler using 'nvidia-smi --fan'.**
- D. Lower the GPU power limit using 'nvidia-smi -power-limit*'.
• E. **Re-seat the GPU in its PCIe slot to ensure proper contact and heat dissipation.**

Answer: C,E

Explanation:

Re-seating the GPU (D) ensures a proper connection between the GPU and the motherboard, which is crucial for effective heat dissipation. Increasing fan speed (E) can directly improve cooling. Lowering the power limit (B) reduces temperature but also reduces performance. Updating drivers (C) may help in some cases, but it is less likely to solve a thermal throttling problem. Lowering the ambient temperature (A) is generally beneficial but might not be specific enough to fix the overheating issue on a single server.

NEW QUESTION # 54

You've successfully deployed BlueField OS to your SmartNIC. You need to verify that the Mellanox Ethernet driver (mlx5) is loaded and functioning correctly. What command would you use to confirm this?

- A.
- B.
- C.
- D.
- **E.**

Answer: E

Explanation:

The 'lsmod' command lists loaded kernel modules. 'grep mlx5' filters the output to show if the Mellanox Ethernet driver is loaded. 'Ispci' lists PCI devices, 'ifconfig' shows network interfaces but not necessarily the driver, and 'ethtool' displays driver information for

a specific interface.

NEW QUESTION # 55

An engineer needs to verify NVLink isolation on a single node with 8 GPUs. Which NCCL test configuration stresses switch bisection bandwidth?

- A. Use `NCCL_TESTS_SPLIT="DIV 8"` with point-to-point tests
- B. Use `reduce_scatter_perf -b 8 -e 16G -f2 -g 4`
- C. Use `all_reduce_perf -b 8 -e 16G -f2 -g 8` without splits
- D. Use `all_reduce_perf -b 8 -e 16G -f2 -g 8` with `NCCL_TESTS_SPLIT="AND 0x1"`

Answer: D

Explanation:

To validate the robustness of the NVLink Switch fabric in a DGX H100, engineers must test how the switches handle traffic when the cluster is logically partitioned. While a standard `all_reduce_perf` test (Option D) shows aggregate throughput, it may not reveal issues with specific internal switch paths. Using the `NCCL_TESTS_SPLIT` environment variable allows for more granular stress testing. Specifically, using a bitwise mask like `"AND 0x1"` (Option B) creates specific traffic subsets that force data through the internal NVLink switch bisection. This ensures that even when only half the GPUs are communicating or when specific patterns are used, the switches can maintain full wire speed without internal contention. This is a critical validation step during the "Bring-up" phase to ensure there are no manufacturing defects in the NVSwitch baseboard or the high-speed traces connecting the GPU modules.

NEW QUESTION # 56

Which of the following are key benefits of using NVIDIA Spectrum-X switches in an AI infrastructure compared to traditional Ethernet switches? (Select THREE)

- A. Native support for IPv6.
- B. Support for RoCE (RDMA over Converged Ethernet) and InfiniBand protocols, enabling high-bandwidth, low-latency communication.
- C. Hardware-based acceleration for collective communication operations used in distributed AI training.
- D. Advanced telemetry and monitoring capabilities for network performance optimization.
- E. Lower cost per port.

Answer: B,C,D

Explanation:









Spectrum-X switches are designed for high-performance computing and AI workloads. They support RoCE and InfiniBand for low-latency communication, offer advanced telemetry for network optimization, and include hardware-based acceleration for collective communication operations, improving the efficiency of distributed AI training. While Spectrum-X supports IPv6, this is also a common feature in modern Ethernet switches. Spectrum-X switches typically have a higher cost per port compared to basic Ethernet switches due to their advanced features and performance.

NEW QUESTION # 57

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