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NVIDIA Certified Professional AI Infrastructure

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>> New NCP-AII Test Objectives <<

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immediately, regardless of the operating system and browser they are using.

NVIDIA AI Infrastructure Sample Questions (Q49-Q54):

NEW QUESTION # 49

You've flashed the BlueField OS to your SmartNIC, but you need to customize the kernel command line arguments (bootargs) to enable a specific feature. Where is the MOST appropriate place to modify these arguments for persistent changes that survive reboots?

- A. Passing it as an argument to bfboot during deployment.
- B. In the bootloader configuration file (e.g., extlinux.conf or grub.cfg) on the BlueField's flash memory.
- C. Directly in the kernel image file itself using a hex editor.
- D. In the '/proc/cmdline' file. This allows immediate changes.
- E. In the '/etc/default/grub' file on the BlueField OS, followed by updating the GRUB configuration.

Answer: B

Explanation:

The bootloader configuration file (extlinux.conf, grub.cfg, uEnv.txt depending on the system) is where boot arguments are persistently stored. Modifying the kernel image directly is highly discouraged and risky. '/etc/default/grub' is a common location on standard Linux systems, but not necessarily on the BlueField OS's boot environment. '/proc/cmdline' shows the currently used arguments, but modifying it doesn't persist changes across reboots. bfboot will only change the image during that flash, changes at the bootloader level persist after subsequent flashes.

NEW QUESTION # 50

You are installing four NVIDIA A100 GPUs in a server, and after installation, you observe that the PCIe link speed for one of the GPUs is running at x8 instead of the expected x16. What could be the POSSIBLE causes for this reduced PCIe link speed?

- A. All of the above
- B. The BIOS/UEFI is configured to limit the PCIe link speed for that slot.
- C. The GPU is faulty.
- D. The PCIe slot is only wired for x8 speed.
- E. The CPU does not have enough PCIe lanes to support all GPUs at x16.

Answer: A

Explanation:

A reduced PCIe link speed can result from multiple factors: a faulty GPU, insufficient PCIe lanes from the CPU, the physical wiring of the PCIe slot, or a BIOS/I2EFI configuration limiting the speed. All these are potentially viable causes. Thus answer E is correct.

NEW QUESTION # 51

You are designing a storage solution for a cluster used for both training and inference. Training requires high throughput, while inference requires low latency. How should you architect the storage to meet both requirements efficiently?

- A. Use a single storage tier optimized for training (high throughput)
- B. Use a single storage tier optimized for inference (low latency)
- C. Use a tiered storage system with a fast tier (e.g., NVMe SSDs) for inference and a separate high-throughput parallel file system for training
- D. Use cloud storage for both training and inference
- E. Use a tiered storage system with a fast tier (e.g., NVMe SSDs) for inference and a slower, cheaper tier (e.g., HDDs) for training data storage

Answer: C

Explanation:

A tiered storage system with NVMe SSDs for inference ensures low latency for serving models. A separate high-throughput parallel file system optimizes training data access. This allows efficient utilization of resources for both workloads. Using a single tier optimized for one workload will compromise the other's performance. HDDs for training might be too slow for large datasets.

NEW QUESTION # 52

You are developing a CI/CD pipeline for deploying AI models to a Kubernetes cluster with NVIDIA GPUs. Your pipeline includes steps to build, test, and deploy the model as a containerized application. What is the recommended approach for ensuring that the application container image includes the correct NVIDIA drivers and libraries?

- A. Manually installing the NVIDIA drivers and libraries inside the container image during the build process.
- B. Downloading the latest drivers from NVIDIA's website and adding them to the container image.
- C. Configuring the cluster to download and configure the needed drivers just before deploying your application.
- **D. Using a base image provided by NVIDIA that includes the necessary drivers and libraries.**
- E. Relying on the NVIDIA Container Toolkit to automatically install the drivers and libraries at runtime.

Answer: D

Explanation:

Using a base image provided by NVIDIA (such as those from NGC) is the recommended approach because it ensures that the container image includes the correct and compatible drivers and libraries, simplifying the build process and reducing potential compatibility issues. The NVIDIA Container Toolkit requires host drivers and handles the injection of the library into the container and not the building of the image.

NEW QUESTION # 53

Which of the following techniques are effective for improving inter-GPU communication performance in a multi-GPU Intel Xeon server used for distributed deep learning training with NCCL?

- **A. Configuring NCCL to use the correct network interface and transport protocol (e.g., 1B, Socket).**
- B. Disabling CPU frequency scaling to maintain consistent performance.
- **C. Utilizing InfiniBand or RoCE interconnects if available.**
- **D. Enabling PCIe peer-to-peer transfers between GPUs.**
- E. Increasing the system RAM size to minimize data transfer to disk.

Answer: A,C,D

Explanation:

Improving inter-GPU communication involves optimizing the network used for transferring data between GPUs. PCIe peer-to-peer, InfiniBand/RoCE, and proper NCCL configuration all contribute to faster communication. Increasing RAM size helps with data caching but doesn't directly affect inter-GPU communication speed. Disabling CPU frequency scaling is about CPU performance stability, not inter-GPU communication directly.

NEW QUESTION # 54

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