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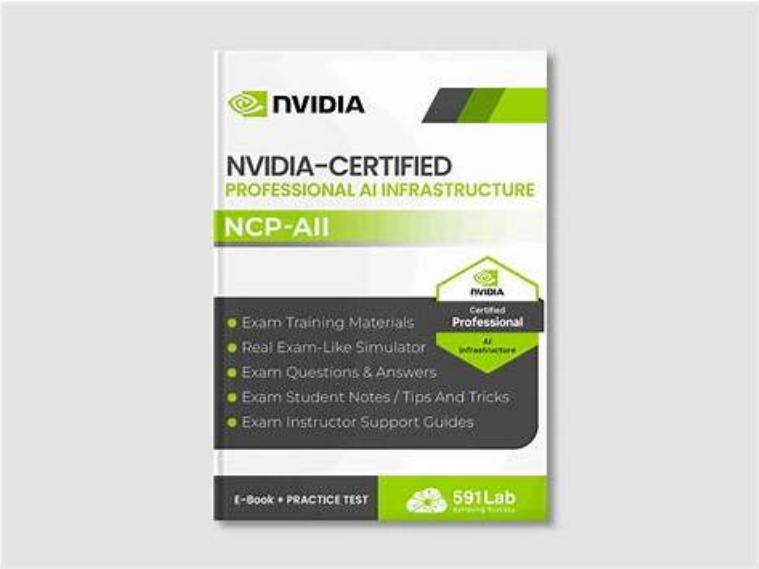

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NVIDIA AI Infrastructure Sample Questions (Q40-Q45):

NEW QUESTION # 40
You have a GPU-intensive application that requires the latest features of CUDA 12. However, your host system's NVIDIA driver is only compatible with CUDA 11.8. What steps can you take to enable your application to use CUDA 12 within a Docker container, without upgrading the host driver?

- A. Install CUDA 12 inside the Docker container and set the 'CUDA DRIVER VERSION' environment variable to match the host driver version.
- B. Upgrade the NVIDIA driver on the host system to the latest version compatible with CUDA 12.
- C. Mount the CUDA 12 libraries from a separate Docker volume into the container and configure the accordingly.
- D. Use a Docker image based on 'nvidia/cuda:12.0-base-ubuntu20.04'. The NVIDIA Container Toolkit will automatically

handle the driver compatibility between the host and the container.

- E. Downgrade the application to use CUDA 11.8 to match the host's driver version.

Answer: D

Explanation:
The NVIDIA Container Toolkit enables compatibility between the host driver and the CUDA version within the container (B). Using a Docker image based on will allow your application to leverage CUDA 12 features. Upgrading the host driver (A) is an option but not necessary and may introduce other compatibility issues. Setting (C) is not a standard or reliable approach. Mounting CUDA libraries from a volume (D) is complex and might not resolve driver version mismatches. Downgrading the application (E) avoids the problem but sacrifices access to CUDA 12 features. Because NVIDIA ensures a degree of backwards compatibility, the newer toolkit in the container can often work with an older driver on the host.

NEW QUESTION # 41
You are configuring a switch port connected to a host in an NCP-AII environment. The host is running RoCEv2. To optimize performance and prevent packet loss, which flow control mechanism should you enable on the switch port?

- A. Simple Network Management Protocol (SNMP).
- B. Spanning Tree Protocol (STP).
- C. Priority Flow Control (PFC) or 802.1 Qbb, specifically for the traffic class associated with RoCEv2.
- D. None; flow control is not needed with RoCEv2.
- E. TCP flow control.

Answer: C

Explanation:
Priority Flow Control (PFC), also known as 802.1Qbb, is the appropriate flow control mechanism for RoCEv2. RoCEv2 is a lossless Ethernet protocol, and PFC allows you to enable flow control on specific traffic classes, preventing packet loss in congested situations. By enabling PFC specifically for the traffic class carrying RoCEv2 traffic, you ensure that high-priority A1 training data is delivered reliably without being affected by congestion on other parts of the network.

NEW QUESTION # 42
A security policy requires you to log all NGC CLI commands executed on a specific host. How can you achieve this without modifying the NGC CLI source code?

- A. Configure the NGC CLI to send all commands to a remote syslog server.
- B. Implement system-level auditing using tools like 'auditd' (Linux) or Windows Event Logging to capture all executed commands, including NGC CLI commands.
- C. Use the 'history' command in Linux to view the command history for the user account used to execute the NGC CLI commands.
- D. Create a wrapper script around the 'ngc' command that logs the command and its arguments before executing the actual NGC CLI command.
- E. NGC CLI automatically logs all commands to a file in the '/var/log/ngc' directory.

Answer: B,D

Explanation:
System-level auditing (B) provides a comprehensive way to log all executed commands. Creating a wrapper script (C) allows you to log the command before it's executed. The 'history' command (A) only captures commands executed in the current shell session. Option D is incorrect as NGC CLI does not log automatically to this directory, and option E is not a supported feature.

NEW QUESTION # 43
You are using the NVIDIA Container Toolkit in a Kubernetes environment with multiple GPUs per node. You want to ensure that pods can request specific GPUs on a node, rather than simply requesting 'any' GPU. Which Kubernetes feature, in conjunction with the NVIDIA Device Plugin, allows you to achieve this fine-grained GPU resource allocation?

- A. Taints and Tolerations
- B. Resource Quotas

- C. Topology Manager
- D. Node Affinity
- E. Device Plugins API

Answer: C

Explanation:
The Kubernetes Topology Manager (C) allows you to align resource allocations (including GPIJs) with specific NIJMA nodes. This is critical for performance when dealing with multiple GPUs per node. Resource Quotas (A) limit resource usage but don't control specific GPU selection. Node Affinity (B) selects nodes based on labels, not specific GPUs. The Device Plugins API (D) enables GPIJ discovery, but the Topology Manager is needed for fine-grained allocation within a node. Taints and Tolerations (E) are used to prevent pods from being scheduled on certain nodes unless they have the corresponding toleration, and does not directly allow for the selection of a particular GPU.

NEW QUESTION # 44
You are tasked with optimizing an Intel Xeon scalable processor-based server running a TensorFlow model with multiple NVIDIA GPUs.
You observe that the CPU utilization is low, but the GPU utilization is also not optimal. The profiler shows significant time spent in 'tf.data' operations. Which of the following actions would MOST likely improve performance?

- A. Increase the number of threads used for CPU-bound operations in TensorFlow using 'tf.config.threading.set_intra_op_parallelism_threads()'.
- B. Use 'tf.data.AUTOTIJNE to allow TensorFlow to dynamically optimize the data pipeline.
- C. Reduce the global batch size to improve memory utilization.
- D. Upgrade the server's network adapter to a faster interface, such as 100Gb
- E. Enable XLA (Accelerated Linear Algebra) compilation in TensorFlow.

Answer: B

Explanation:
'tf.data' performance issues often stem from inefficient data pipelines. 'tf.data.AIJTOTUNE allows TensorFlow to dynamically optimize the pipeline by adjusting parameters such as prefetch buffer size and the number of parallel calls to transformation functions. XLA compilation optimizes graph execution, but 'tf.data' issues need to be addressed first. Increasing CPU threads might help but 'AUTOTUNE is more specific to the problem. A smaller batch size could negatively impact GPU utilization. Network upgrades are irrelevant as the problem lies within the server.

NEW QUESTION # 45
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