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NVIDIA AI Infrastructure Sample Questions (Q123-Q128):

NEW QUESTION # 123

What is the role of GPUDirect RDMA in an NVLink Switch-based system, and how does it improve performance?

- A. It allows GPUs to directly access each other's memory without involving the CPU, reducing latency and CPU overhead.
- B. It provides a mechanism for GPUs to offload compute-intensive tasks to the CPU, improving overall system throughput.
- C. It enables direct communication between GPUs and storage devices, bypassing the network interface.
- D. It encrypts data transmitted between GPUs, enhancing security.
- E. It facilitates the virtualization of GPUs, allowing multiple virtual machines to share a single physical GPU.

Answer: A

Explanation:

GPUDirect RDMA enables direct memory access between GPUs, bypassing the CPU and reducing latency. This significantly improves performance for applications that require frequent data transfers between GPUs. Other options describe functionalities that

are not associated with RDMA in this context.

NEW QUESTION # 124

You are expanding a DGX-based deep learning cluster to train on large, high-resolution images that cannot fit into local cache. Multiple nodes will access this data concurrently and require high performance. Which storage and networking solution best meets these requirements?

- A. Increase the SSD RAID-0 local cache size in each node so it can absorb most training data, making network storage type and speed less important for performance.
- B. Implement a standard NFS server on a 10GbE network because the cluster can access the export and job performance will not be impacted.
- C. Recommend general-purpose object storage for all training data because it is optimized for deep learning workloads and distributed data access at any scale.
- **D. Deploy a high-performance parallel file system across InfiniBand or 40/100GbE, ensuring at least 3 GB /s per node and scalable aggregate bandwidth for all cluster workloads.**

Answer: D

Explanation:

The correct solution is a high-performance parallel file system connected through InfiniBand or high-speed Ethernet. Large image training workloads can generate heavy concurrent reads from many GPU nodes, especially when datasets cannot be cached locally. If storage cannot deliver enough per-node and aggregate throughput, GPUs wait for input data and overall training efficiency drops. A parallel file system is designed to distribute metadata and data access across multiple storage servers, allowing many DGX nodes to read training data concurrently. Using InfiniBand or 40/100GbE provides the network bandwidth needed to avoid storage becoming the limiting factor. Expanding local RAID-0 cache may help some repeated reads, but it does not solve shared dataset access or scale well across many nodes. A single NFS server on 10GbE is likely to bottleneck under concurrent multi-node training. General object storage is useful for capacity and cloud-style workflows, but it is not always optimal for high-throughput POSIX-style training access. For DGX cluster optimization, storage must be sized for sustained throughput, metadata operations, and concurrent GPU consumption.

NEW QUESTION # 125

You are tasked with replacing a redundant power supply unit (PSU) in a GPU server. The server has two 2000W PSUs. One PSU has failed, but the server is still running. Which of the following actions is the safest and most efficient way to replace the faulty PSU?

- **A. Hot-swap the faulty PSU with a new one while the server is running**
- B. Replace the faulty PSU, then reboot the server to ensure the new PSU is working.
- C. Immediately power down the server and replace the faulty PSU.
- D. Wait for a scheduled maintenance window to power down the server and replace the PSU.
- E. Document the failure and wait until the remaining PSU fails before taking action.

Answer: A

Explanation:

Hot-swapping is the designed method for replacing redundant PSUs in many server systems. This allows the server to remain operational while the faulty PSU is replaced, minimizing downtime. Powering down the server immediately is unnecessary and causes downtime. Waiting for a maintenance window or until the remaining PSU fails increases the risk of a complete server outage.

NEW QUESTION # 126

A company has a registered NGC account and their server has NGC CLI installed. What step should be taken first to gain access to NGC?

- A. ngc init
- **B. ngc config set**
- C. ngc config update
- D. ngc config get

Answer: B

Explanation:

The NVIDIA GPU Cloud (NGC) is the central repository for AI-optimized containers, pre-trained models, and specialized SDKs. To interact with the NGC registry via the command line, the `ngc` CLI must be authenticated to the user's account. The command `ngc config set` is the verified first step to configure these credentials. When this command is executed, the user is prompted to provide their API Key, which is generated from the NGC web portal. This configuration process creates a local config file (typically in `~/ngc/config`) that stores the authentication token, the preferred organization, and the team settings. Without running `ngc config set`, the CLI cannot authenticate requests to pull private containers or upload models. `ngc init` (Option B) is not a standard configuration command for the current NGC CLI architecture, and `ngc config get` (Option A) is only useful for viewing an existing configuration that has already been established.

NEW QUESTION # 127

After NCCL burn-in reports "transport retry count exceeded," which corrective action addresses the underlying fabric issue?

- A. Switch from Ring to Tree algorithms via `NCCL_ALGO=TREE`
- B. Reduce message size to decrease network utilization
- C. Increase `NCCL_IB_TIMEOUT` to tolerate longer latencies
- D. Inspect InfiniBand link quality metrics (BER, symbol errors) and replace faulty cables

Answer: D

Explanation:

In an InfiniBand-based AI cluster, the "transport retry count exceeded" error is a critical indicator of physical layer instability within the fabric. When the NVIDIA Collective Communications Library (NCCL) attempts to move data between GPUs across nodes, it relies on the Reliable Connection (RC) transport of InfiniBand. If a packet is corrupted or lost due to signal integrity issues, the hardware attempts to retransmit the data. If the number of failed retransmissions exceeds the hardware-defined "Retry Count," the connection is torn down, and NCCL reports this error. While software workarounds like increasing timeouts (Option C) might mask the symptom briefly, they do not fix the root cause: a failing physical component. The verified troubleshooting procedure involves using tools like `ibqueryerrors`, `ibdiagnet`, or `mlxlink` to inspect the link quality metrics, specifically looking for high Bit Error Rates (BER) and Symbol Errors. These errors are typically caused by dirty fiber connectors, poorly seated transceivers, or marginal DAC cables that cannot maintain the signal-to-noise ratio required for 200G (HDR) or 400G (NDR) speeds. Replacing the identified faulty cable or cleaning the optics is the only way to restore the "lossless" environment required for high-performance AI training.

NEW QUESTION # 128

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